

**Contract 1**

Schedule 1

SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS

Item	Description	Unit	Quantity	Rate	Amount R
1200	SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS				
B12.04	Daywork				
	(a) Labour	hr	1		Rate Only
	(b) Foreman	hr	1		Rate Only
	(c) Artisans	hr	1		Rate Only
	(d) Air compressor, 4m <sup>3</sup> /min, complete with drills, jackhammers, etc.	hr	1		Rate Only
	(e) Pump including all necessary hoses	hr	1		Rate Only
	(f) Truck as follows:		1		
	(i) Truck (3-5t) with operator	hr	1		Rate Only
	(ii) Truck (6-10t) with operator	hr	1		Rate Only
	(g) Concrete mixer 0.5m <sup>3</sup>	hr	1		Rate Only
	(h) Vibrating roller (BM 60) Compactor, 0,6m wide	hr	1		Rate Only
	(i) Front end loader with operator, 0,8m <sup>3</sup>	hr	1		Rate Only
	(j) Backactor with operator, 0,3m <sup>3</sup>	hr	1		Rate Only
	(k) Watercart, 500l	hr	1		Rate Only
	(l) Survey assistant	hr	1		Rate Only
	(m) (i) Allow a provisional sum for purchase of materials	Sum	1		Rate Only
	(ii) Handling cost and profit in respect of subitem B22.04 (m)(i)	%			Rate Only
12.07	Supply and erect of contract name board complete	No	1,0		
12.09	Accredited & Non Accredited Training				
	(a) Training	Prov sum	1,0	150 000,00	R 150 000,00
	(b) Handling cost and profit on (a)	%	150 000,00		
12.10	Community Liason Officer				
	(a) CLO Costs (at R3500/month)	Prov sum	1,0	10 500,00	R 10 500,00
	(b) Handling cost on 12.10 (a & b)	%	10 500,00		
12.11	Renumaration for PSC Meetings (R350/Meeting)	Prov sum	1,0	6 300,00	R 6 300,00
12.12	Handling cost on item 12.11 above	%	6 300,00		
12.13	Personal Protective Clothing for Engineer and Engineers Staff	Prov sum	1,0	10 000,00	R 10 000,00
	Handling Cost	%	10 000,00		
Total Carried Forward To Summary					

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SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS

Item	Description	Unit	Quantity	Rate	Amount R
1300.00	SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	Contractors general obligations				
	(a) Fixed obligations	L.Sum	1,0		
	(b) Value-related obligations	L.Sum	1,0		
	(c) Time-related obligations	month	3,0		
	(d) Compliance with Health & Safety Act + Environmental Management obligations	month	3,0		
	NOTE: The combined total tendered for item (a) through to (d) above shall not exceed 20% of the Total Tendered Sum for this phase of the project, excluding VAT, Contingency.				
B13.02	Penalties to be deducted from the Contractor:				
	(a) For failing to complete the works on time at R2500/day until all work is complete.	day	0,0	2 500,00	R -
	(b) For non- compliance with requirements for Health & Safety				
	(i) Fixed sum per occurrence at R 5000/occurrence	No	0,0	5 000,00	R -
	(ii) Time related penalty at R2000/day until compliance	day	0,0	2 000,00	R -
	(c) For non- compliance with requirements for accommodation of traffic				
	(i) Fixed sum per occurrence at R 3000/occurrence	No	0,0	3 000,00	R -
	(ii) Time related penalty at R2000/day until compliance	day	0,0	2 000,00	R -
	(d) For removing plant from site without the consent of the Engineer at R2000/day until plant is back on to site.	day	0,0	2 000,00	R -
B13.03	Other Fixed Obligations - Health & Safety				
	Preparation and submission of H&S file	L.Sum	1,0		
	Principal Contractor's provision of Signane on site in respect of the OHS Act and Safety Regulations	L/sum	1,0		
	Personal Protective Equipment				
	a) Reflective	No	20,0		
	b) Hard hats	No	20,0		
	c) Protective foot wear	No	20,0		
	d) Earplugs	No	20,0		
	e) Dust masks	No	20,0		
	f) Gloves	No	20,0		
	g) High visibility overalls	No	20,0		
	Medical certificate and surveillance	No	20,0		
	Provision of first Aid Box	No	1,0		
	Fire Extinguisher (4,5kg)	No	2,0		
Total Carried Forward					



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## SECTION 1400: HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL

Item	Description	Unit	Quantity	Rate	Amount R
14.00	SECTION 1400: HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL				
14.01	Office and laboratory accommodation:				
	(a) Offices (interior floor space only)	m2	40,0		
	(e) Ablution units	m2	4,0		
14.02	Office and laboratory furniture:				
	(a) Chairs	No	12,0		
	(d) Desks, complete with drawers and locks	No	2,0		
	(e) Drawing tables	No	2,0		
14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) Power points	No	4,0		
	(iv) Double 50 watt fluorescent-light	No	2,0		
	( c ) Items measured by area				
	(vii) Venetian blinds	m2	4,0		
	(viii) Notice boards as specified	m2	4,0		
14.04	Services as specified in clause 1404, namely water, electricity, sewerage, etc, etc:				
	(a) Services at offices				
	(i) Fixed costs	L.Sum	2,0		
	(ii) Running costs	month	3,0		
B14.05	Telephones				
	(a) Cost of calls in connection with contract administration	Prov sum	1,0	15 000,00	R 15 000,00
	(b) Handling cost and profit in respect of subitem B14.11 (a)	%	15 000,00		
14.06	Provision for Geotechnical Material Investigation done on site Consultant appointed by Engineer	Prov Sum	1	40000	R 40 000,00
14.07	Provision for Survey and Setting Out Done on site Consultant Appointed by Engineer	Prov Sum	1	25000	R 25 000,00
Total Carried Forward To Summary					

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SECTION 1500: ACCOMMODATION OF TRAFFIC

Item	Description	Unit	Quantity	Rate	Amount R
15.00	SECTION 1500: ACCOMMODATION OF TRAFFIC				
15.03	Temporary traffic-control facilities:				
	(a) Flagmen	month	3,0		
	(b) Portable STOP and GO-RY signs	No	2,0		
	(d) Amber flicker lights (100 W)	No	1,0		
	(e) Road signs, R- and TR-series (Engineering Grade background)				
	(i) R-series (1200mm diameter)	No	2,0		
	(ii) R-series (triangula - 1500mm sides)	No	2,0		
	(iii) TR-series (1200mm diameter)	No	6,0		
	(f) Road signs, TW-series	No	6,0		
	(g) Road signs, STW-, DTG-, TGS- and TG-series (Engineering Grade background, sizes as spercified for 40km/hr)	m2	0,0		
	(h) Delineators (DTH50J ) ( Size - 1000mm x 250mm including sand bags)				
	(i) Single	No	0,0		
	(ii) Mounted back to back	No	0,0		
	(i) Movable barricade/road sign combination ( size indicated )	No	0,0		
15.15	Provision of traffic safety equipment for useby the Engineer				
	(a) Safety Jackets	No	4,0		
	(b) Amber Flashing lights with magnetic mounts	No	4,0		
Total Carried Forward To Summary					0,00





Item	Description	Unit	Quantity	Rate	Amount R
21.00	SECTION 2100: DRAINS				
B21.01	Excavation for open drains:				
	(a) Excavation in soft material situated within the following depth ranges below the				
	surface level:				
	(i) 0m up to 1.5m	m <sup>3</sup>	750,0		
Total Carried Forward To Summary					

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SECTION 2200: PREFABRICATED CULVERTS

Item	Description	Unit	Quantity	Rate	Amount R
22.00	SECTION 2200: PREFABRICATED CULVERTS				
22.01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m <sup>3</sup>	25,0		
	(ii) Exceeding 1,5 m and up to 3,0 m	m <sup>3</sup>	10,0		
	(b) Extra-over sub-item 22.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	10,0		
22.02	Backfilling				
	(a) Using excavated material	m <sup>3</sup>	25,0		
	(b) Using imported selected material	m <sup>3</sup>	10,0		
22.03	Concrete pipe culverts				
	(a) On class B bedding				
	(i) 600mm dia. Type 100 D	m	20,0		
	(ii) 900mm dia. Type 100D	m	10,0		
22.05	Portal & Rectangular Culverts				
	(b) Without prefabricated slabs (for the sizes stated below)				
	(i) 2100 x 2100 Type 100S	No	0,0		
22.07	Cast in situ concrete & formwork				
	(b) 25Mpa concrete in floor slabs for portal or rectangular culverts, joints and class U2 surface finish	m <sup>3</sup>	0		
	(c) 25Mpa concrete in inlet and outlet structures, skew ends, catch trust and anchor blocks, including formwork and class U2	m <sup>3</sup>	0		
B22.08	Concrete backfill for culverts, ducts and other services (15 Mpa)	m <sup>3</sup>	0,0		
22.10	Steel Reinforcement				
	(b) High-tensile steel bars	t	0,0		
	(iii) Ref: 888	m <sup>2</sup>	0,0		
22.18	Single Pipe Brick headwall at outlet & inlet ( as per drawing)				
	d) For pipe diameters 600 mm to 900mm	No	4,0		
Total Carried Forward To Summary					

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SECTION 3300: MASS EARTHWORKS

Item	Description	Unit	Quantity	Rate	Amount R
3300	SECTION 3300: MASS EARTHWORKS				
33.01	Cut and borrow to fill, including free-haul up to 0.5km. Material obtained from other excavations;				
	( a ) Soft Material in compacted layer thickness of 200mm and less:				
	(i) Compacted to 90% Mod AASHTO density	m <sup>3</sup>	2 750,0		
33.02	Cut to spoil, including free-haul up to 1,0km. Material obtained from;				
	( a ) Soft excavation	m <sup>3</sup>	2 750,0		
33.03	Extra over item 33.02 Boulder Excavations	m <sup>3</sup>	300,0		
33.04	Roadbed preparation and the compaction of material:				
	(b) Compaction to 93% of Mod AASTHO density (200 mm )	m <sup>3</sup>	2 000,0		
Total Carried Forward To Summary					

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SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL

Item	Description	Unit	Quantity	Rate	Amount R
3400	SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.01	Pavement layers constructed from gravel obtained from commercial sources, unlimited overhaul				
	(e) Gravel base/selected layer (G6 or G7) compacted to:				
	(ii) 98% of modified AASHTO density (150mm layer thickness)	m <sup>3</sup>	2 400,0		
Total Carried Forward To Summary					

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SECTION 5100: PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION

Item	Description	Unit	Quantity	Rate	Amount R
5100	SECTION 5100: PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION				
51.01	Stone pitching				
a)	Plain Pitching:				
i)	Method 1	m <sup>2</sup>	500,0		
Total Carried Forward To Summary					

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## SECTION 5600: ROAD SIGNS

Item	Description	Unit	Quantity	Rate	Amount R
5600	SECTION 5600: ROAD SIGNS				
56.01	Road sign boards with painted or coloured, semi-matt background,  Symbols, lettering and borders in semimatt black o in Class 1 retro-reflective  material, where the sign board is constructed from:  (c) Sheet steel (chromadek 1.6mm thick)				
	(1) Rectangular area not exceeding 2m2	m <sup>2</sup>	10,0		
	(2) Octagonal				
	(a) 610mm	No	6,0		
	(3) Triangular				
	(a) 914mm	No	6,0		
	(4) Round				
	(a) 610mm	No	6,0		
56.02	Extra over item 56.01 for using:  (a) Background of retro-reflective material:				
	(i) Engineering grade	m <sup>2</sup>	10,0		
	(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
	(i) High intensity grade	m <sup>2</sup>	10,0		
56.03	Road sign supports: (overhead road sign structures excluded)				
	(a) Steel tubing, 60mm outside diameter, wall thickness 4,0mm,galvanized.	m	10,0		
56.05	Excavation and backfilling for road sign support (not applicable to km posts)	m <sup>3</sup>	10,0		
56.06	E/O item 56.05 for cement treated soil backfill	m <sup>3</sup>	10,0		
56.08	Dismantling, storing and re-erecting road signs with a surface area of				
	(a) Up to 2m <sup>2</sup>	No	10,0		
Total Carried Forward To Summary					

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SECTION 5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

Item	Description	Unit	Quantity	Rate	Amount R
5900	SECTION 5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01	Finishing road and road reserve				
	(b) Single carriageway road	Sum	1,0		
Total Carried Forward To Summary					

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SECTION 7100: CONCRETE PAVEMENTS

Item	Description	Unit	Quantity	Rate	Amount R
7100	SECTION 7100: CONCRETE PAVEMENTS				
71.02	150 mm 20 Mpa/19mm concrete pavement excluding texturing and curing	m <sup>3</sup>	40,0		
71.04	texturing and curing the concrete pavement				
	a) Burlap-dragged and grooved texture	m <sup>2</sup>	400,0		
	b) curing	m <sup>2</sup>	400,0		
71.06	Joints:				
	a) 10mm wide expansion joints sealed with a closed cell polythelene jointing material at 5m centres	m	200,0		
71.07	drilling and testing of cores:				
	a) 100 mm cores drilled from the pavement	No	20,0		
71.08	steel reinforced in concrete pavement				
	a) welded steel fabric Ref 617 / 150mm Geocells filled with Concrete	m <sup>2</sup>	400,0		
Total Carried Forward To Summary					

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SECTION 8100: TESTING MATERIALS AND WORKMANSHIP

Item	Description	Unit	Quantity	Rate	Amount R
8100	SECTION 8100: TESTING MATERIALS AND WORKMANSHIP				
B81.01	Testing of materials				
	(a) Testing as required by the Engineer	Prov. Sum	1,0	20 000,00	20 000,00
	(b) Handling costs and profit in respect of subitem B 81.04(a)	%	20 000,00		
Total Carried Forward To Summary					

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SUMMARY OF SECTIONS

Section	Description	Amount R
1200	SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS	
1300	SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
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1500	SECTION 1500: ACCOMMODATION OF TRAFFIC	
1600	SECTION 1600: OVERHAUL	
1700	SECTION 1700: CLEARING AND GRUBBING	
2100	SECTION 2100: DRAINS	
2200	SECTION 2200: PREFABRICATED CULVERTS	
3300	SECTION 3300: MASS EARTHWORKS	
3400	SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL	
5100	SECTION 5100: PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION	
5600	SECTION 5600: ROAD SIGNS	
5900	SECTION 5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
7100	SECTION 7100: CONCRETE PAVEMENTS	
8100	SECTION 8100: TESTING MATERIALS AND WORKMANSHIP	
	SUBTOTAL	<hr/>
1	ADD CONTINGENCIES @10% SUBTOTAL	<hr/>
2	ADD VAT @15%	<hr/>
Total Carried Forward To Summary Of Schedules		<hr/>