

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1200		SECTION 1200				
		GENERAL REQUIREMENTS AND PROVISIONS				
B12.02		Services				
		(a) Exposure of services				
		(i) Using hand excavation	m ³	30		
		(b) Relocation of services	Prov sum	1	200,000.00	200,000.00
		(c) Handling costs and profit in respect of sub-item 12.02 (b) above	%	200,000		
B12.06		Additional survey as required by the Engineer				
		(a) Additional survey as required by the Engineer	Prov. Sum	1	70,000.00	70,000.00
		(b) Contractor's handling costs, profit and all other charges in respect as to Sub-item B12.06 (a)	%	70,000.00		
TOTAL CARRIED FORWARD						

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
B12.31		Contractor's Obligations in respect to Local and other Labourers				
		(a) Provision of transport for local labourers	Lump Sum	1	5,000.00	5,000.00
		(b) Medical Examinations	Lump Sum	1	30,000.00	30,000.00
		(c) Provision of training for local labourers	Lump Sum	1	250,000.00	250,000.00
B12.32		Community Liaison Officer				
		(a) Remuneration	month	18	5,000.00	90,000.00
		(b) Handling costs and profit in respect of sub-item B12.32 (a) above	%	90,000		
B12.33		occupational health and safety representative				
		(a) Remuneration	month	18	5,000.00	90,000.00
		(b) Handling costs and profit in respect of sub-item B12.32 (a) above	%	90,000		
B12.34		Subcontractors				
		(a) Main contractor's general obligations in respect of nominated subcontractors	Lump Sum	1	100,000.00	100,000.00
		(b) Main contractor's general obligations in respect of emerging contractors (SMMEs) and local labour	month	18		

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 1200 - CARRY FORWARD TO SUMMARY						

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1300		SECTION 1300				
		CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13.01		The contractor's general obligations				
		(a) Fixed obligations	l/sum	1		
		(b) Value-related obligations	l/sum	1		
		(c) Time-related obligations	month	18		
		Note:				
		The combined total tendered for this item shall not exceed 15% of the Tender Sum excluding VAT				
		(d) Health and Safety Obligations	month	18		
		(e) Environmental Obligations	month	18		
TOTAL SECTION 1300 - CARRY FORWARD TO SUMMARY						

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 1400				
1400		HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
14.01		Office and laboratory accommodation				
		(b) Offices (interior floor space only)	m ²	60		-
		(c) Laboratories (interior floor space only)	m ²	25		-
		(e) Ablution units	m ²	15		-
14.02		Office and laboratory furniture				
		(a) Chairs				
		(i) quality office desk chairs	No	6		-
		(ii) for boardroom, meetings	No	16		-
		(b) High chairs for laboratory	No	4		-
		(c) Desks, complete with drawers and locks	No	4		-
		(d) Office tables	No	2		-
		(e) Conference tables	No	1		-
B14.03		Office and laboratory fittings, installations and equipment				
		(a) Items measured by number:	PC Sum	1	15,000.00	15,000.00

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
		(ii) Handling costs and profits in respect to sub-item B14.03 (a)	%	15,000		-
		(b) Prime cost items and items paid for in lump sum				
		(i) The provision of of telephone service, including the cost of calls in connection with contract administration	PC Sum	1	20,000.00	20,000.00
		(ii) Handling costs and profits in respect to sub-item B14.03 (b) (i)	%	20,000		-
		(b) Provisional sum items				
		(a) Provision for use by the Engineer of an independent laboratory.	Prov. Sum	1	R 60,000.00	R 60,000.00
		(b) Handling costs and profit in respect of subitem B24.03(d)(i) above	%	60000		
		(c) Provision for nominated subcontractor occupational health and safety consultant	Prov Sum			R 300,000.00

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
14.04		(d) Handling costs and profit in respect of subitem B24.03(d)(v) above	%	300000		R -
		(e) Provision for nominated social facilitator consultant	Prov Sum			R 200,000.00
		(f) Handling costs and profit in respect of subitem B24.03(d)(v) above	%	200000		R -
		(e) Provision for nominated Enviromental consultant	Prov Sum			R 250,000.00
		(g) Handling costs and profit in respect of subitem B24.03(d)(v) above	%	250000		R -
		(h) Provision for nominated training consultant	Prov Sum			R 200,000.00
		(i) Handling costs and profit in respect of subitem B24.03(d)(v) above	%	200000		R -
		Carports				
		Carports, as specified, at offices and laboratory buildings for the Engineers site personnel. Minmum size of each to be 6,0 x 3,0 m				
		Solid roof, not shade netting	No	4		
TOTAL CARRIED FORWARD						

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
14.07		Rented, accommodation and other accommodation				
		(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subclause 14.03(c)(ii)	Prov sum	1	180,000.00	180,000.00
		(b) Handling costs and profit in respect of sub-item 14.07(a) above	%	180,000		-
14.08		Services				
		(a) Services at offices and laboratories				
		(i) Fixed costs	l/sum	1		
		(ii) Running costs	month	18		
		(c) Services for labourer's accommodation on site				
		(i) Fixed costs	l/sum	1		
		(ii) Running costs	month	18		

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
14.10		Balance brought forward				
		Provision of photostat / printer facilities				
		(i) A4 and A3 colour facility, for use by contractor and engineer, including full maintenance	month	18		-
TOTAL SECTION 1400 - CARRY FORWARD TO SUMMARY						-

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1500		SECTION 1500				
B15.01		ACCOMMODATION OF TRAFFIC				
		Accommodating traffic and maintaining temporary temporary deviations, including flagmen				
		(a) On the road	km	4.5		
		(b) On the cross roads and intersections	No.	12		
15.02		Earthworks for temporary deviations				
		(a) Shaping of temporary deviations				
		(i) single lane	km			Rate only
		(ii) double lane	km	4.5		
		(b) Cut and borrow to fill				
		(i) Material to be sourced locally	m³	3,500		
15.03		Temporary traffic control facilities				
	LI	(a) Flagmen	m/days	600		
		(b) Portable STOP and GO-RY signs	No	8		
		(d) Amber flicker lights	No	8		
TOTAL CARRIED FORWARD						-

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
15.04		Balance brought forward				
		(e) Road signs, R- and TR-series (engineering grade background, size 900mm)	No	16		
		(f) Road signs, TW-series (engineering grade background)	No	16		
		(g) Road signs, STW-, DTG-, and TG-series engineering grade background) , sizes as specified for 60 km / h	m²	10		
		(h) Delineators (TW401/1) 1000 mm x 250 mm				
		(i) Single	No	160		
		(ii) Mounted back to back	No	160		
		(i) Movable barricade / road sign combination	No	2		
		(j) Traffic cones (750 mm high)	No	80		
		Relocation of traffic control measures	Lump sum	1		
TOTAL CARRIED FORWARD						-

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
15.05		Gravelling and repair of temporary deviations and existing gravel shoulder used as temporary deviations				
		(a) Temporary deviations	m³	1,875		
15.06		Watering of temporary deviations	kl	6,900		
15.07		Blading by road grader of				
		(b) Existing roads used as temporary deviations	km-pass	10		
15.10		Accommodation of traffic where the road is constructed as half widths	km	0		Rate only
B15.15 / B16.02		Overhaul				
		(a) Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m³-km	13,500		
TOTAL CARRIED FORWARD						-

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
B15.15 / 34.01		Pavement layers of gravel materials Pavement layers constructed from gravel taken from cut or borrow including freehaul up to 1,0 km (h) Gravel wearing course compacted to (i) 93% mod AASHTO density (thickness 150 mm) Material to be sourced locally.	m³	2,250		-
TOTAL SECTION 1500 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1700		SECTION 1700				
17.01		CLEARING AND GRUBBING				
		Clearing and grubbing				
		(i) Road reserve areas	ha	5		-
		(ii) Temporary bypass	ha			Rate only
17.02		Removal and grubbing of large trees and tree stumps				
		(a) Girth exceeding 1 m up to and including 2 m	No	20		-
		(b) Girth exceeding 2 m up to and including 3 m	No	10		-
		(c) Girth exceeding 3 m up to and including 4 m	No	5		-
17.04		Clearing and grubbing at inlets and outlets of hydraulic structures	m ²	50		-
17.05		Cleaning out of hydraulic structures				
		(a) Pipes with an internal dia up to including 750mm	m ³	30		-
		(b) Pipes with an internal dia exceeding 750mm	m ³			Rate only
TOTAL SECTION 1700 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1800 B18.01 B18.02		SECTION 1800				
		DAYWORKS				
		Personnel				
		(a) Unskilled	Hour	50		-
		(b) Semi-skilled	Hour	50		-
		(c) Skilled	Hour	50		-
		(d) Gander	Hour	25		-
		(e) Foremen	Hour	50		-
		Equipment				
		(a) Tipper trucks				
		(i) 5m3	Hour	25		-
		(ii) 10m3	Hour	25		-
		(b) TLB	Hour	25		-
		(c) Loader (0.5m3 bucket)	Hour	25		-
		(d) Walk behid roller (BOMAG BW90)	Hour	25		-
		(e) Water truck (5000l)	Hour	25		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						-

SCHEDULE A: ROADWORKS

SCHEDULE A: ROADWORKS						
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
B18.03		Balance carried forward				0.00
		Materials				
		(a) Procurement of materials	Prov. Sum	1	R 25,000.00	25,000.00
B18.04		(b) Contractor's handling costs, profit and all other charges in respect of B18.03	%	25,000.00		-
		Transport				
		(a) LDV (1 tonne)	km	15		-
		(b) Flatbed truck (5 tonnes)	km	10		-
		(c) Lowbed truck max (30tonne)	km	20		-
TOTAL SECTION 1800 - CARRY FORWARD TO SUMMARY						

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
2100		SECTION 2100				
		DRAINS				
B21.01 LI		Excavation for open drains				
		(a) Excavating soft material situated within the following depth ranges below the surface level using Labourers				
		(i) 0 m up to 1,5 m	m ³	1,755		-
		(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	800		-
21.02		Clearing and cleaning out existing open drains	m ³			Rate only
21.12		Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems				
		(a) Outlet structures	No			Rate only
21.13		Concrete caps for subsoil drain pipes	No	10		-
21.15		Overhaul for material hauled in excess of 1,0 km free haul (normal overhaul)	m ³ -km	9,900		-
21.19 LI		Selected backfill material under concrete lined side drains compacted to 93% of modified AASHTO density	m ³	450.0		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 2100 - CARRY FORWARD TO SUMMARY						

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
2200		SECTION 2200				
22.01		PREFABRICATED CULVERTS				
		Excavation				
		(a) Excavating soft material situated within the following depth ranges below the surface level				
		(i) 0 m up to 1,5 m	m ³	570		-
		(ii) Exceeding 1,5 m and up to 3,0 m	m ³	285		-
		(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	228		-
22.02		Backfilling				
		(a) Using the excavated material, including selected backfilling, 200 mm above pipe crown	m ³	311		-
		(b) Using imported selected material, sourced locally, including selected backfilling, 200 mm above pipe crown	m ³	187		-
		(c) Extra over subitem 22.02(a) and (b) for soil cement backfilling (4% of Portland cement by weight)	m ³	187		-
22.03		Concrete pipe culverts				
		(b) On Class B bedding				
		(iii) 100 D-load pipes, SC type, ogee joints				
		1) 600 mm diameter	m	120		-
		2) 750 mm diameter	m	60		-
		3) 900 mm diameter	m	60		-
		Above items include the bedding and selected backfill				
22.05		Portal and rectangular culverts:				
	(b)	Without prefabricated floor slabs				
	(ii)	750mm x 750mm Type	m	36		
	(iv)	900mm x 900mm Type	m	24		-
	(v)	1200mm x 1200mm Class 150S	m	24		-
	(vi)	1500mm x 900mm Type	m			Rate only
	(viii)	1800mm x 2400mm Class 100S	m	58		-
	(xv)	2400mm x 1800mm Type	m	24		-
	(xvii)	2400mm x 2800mm 100s	m	60		
	(xvii)	2500mm x 2100mm Type	m	12		-
	(xxii)	3000mm x 2400mm Type	m			Rate only
TOTAL CARRIED FORWARD						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
22.07		Balance brought forward Cast in-situ concrete and formwork (c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish (i) Class 25/19 concrete	m ³	159.12		-
TOTAL CARRIED FORWARD						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
		(d) Formwork of concrete under subitem 22.07(c) above				
		(i) Class F1 surface finish	m ²			Rate only
		(ii) Class F2 surface finish	m ²	90		-
22.10		Steel reinforcement				
		(a) Mild steel bars	t	1.0		-
		(b) High-tensile steel bars	t	1.0		-
		(c) Welded steel fabric	kg	50		-
22.12		Removing existing concrete				
		(a) Plain concrete	m ³	400		-
		(b) Reinforced concrete	m ³			Rate only

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
22.14		Balance brought forward				
		Removing and stacking existing prefabricated culverts				
		Includes additional free haul of 5,0 km, for total free haul of 10,0 km				
		(a) Concrete pipe culverts				
		(i) 600 - 750 mm diameter	m	30		
		(ii) 825 - 900 mm diameter	m			Rate only
TOTAL CARRIED FORWARD						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		Balance brought forward				
22.25		Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement), existing structures demolished and removed to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the (1,0 km) free-haul distance	m³-km	9,000		-
B22.29		Dewatering and keeping dry of culvert excavations	No	1		-
B22.30		Cutting of concrete pipes				
		(a) 600 mm diameter	No	6		-
		(b) 750 mm diameter	No	2		-
		(c) 900 mm diameter	No	2		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 2200 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
2300		SECTION 2300				
		CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
B23.01		Concrete kerbing				
		(a) Edge beams				
		(i) Figure 12 pre cast kerb, edge restraint for paving blocks	m	5,100		-
		(b) SANS 927:2007				
		(ii) Figure 3, vertically, at sidewalks bellmouths and bus bays	m	5,100		-
		(iii) Figure 8b in Curved sections and islands	m	1,250		-
		(iv) Figure 10, vertically, at bus bays	m	400		-
		(c) Extra over subitem B23.01 (a) and (b) for excavating and backfilling materials for edge beam and kerbing in base course layer	m ³	580		-
23.07		Trimming of excavations for concrete-lined open drains				
		(a) In soft material	m ²	6,000		-
		(b) In hard material	m ²			Rate only
TOTAL CARRIED FORWARD						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
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SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY		BILL AMOUNT
23.08	LI	Balance brought forward				
		Concrete lining for open drains				
		(a) Cast insitu concrete (class 25/19 concrete)	m³	900		-
		(b) Class U2 surface finish to cast insitu concrete (V drain)	m²	6,000		-
23.09		Formwork to cast insitu concrete lining for open drains (class F2 surface finish)				
		(b) To sides with formwork on both internal and external faces (each face measured)	m²	1,200		-
		(c) To ends of slabs	m²			Rate only
23.10		Sealed joints in concrete linings of open drains	m	2,000		-
23.12		Steel reinforcement				
		(c) Welded steel fabric	kg	53,750		-
23.13		Polyethylene sheeting (0,15 mm thick) for concrete lined open drains	m²	6,000		-
TOTAL SECTION 2300 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3100		SECTION 3100				
		BORROW MATERIALS				
31.01		Excess overburden in borrow pits				
		(i) Borrow Pit No. 1	m ³			Rate only
		(ii) Borrow Pit No. 2	m ³			Rate only
		(iii) Borrow Pit No. 3	m ³			Rate only
31.03		Finishing off borrow areas in				
		(a) Hard material	ha			Rate only
		(b) Intermediate material	ha			Rate only
		(c) Soft material	ha			Rate only
B31.06		Hydroseeding				
		(a) Hydroseeding with approved local grass to match existing				
		(i) Provide an approved seed mixture for hydroseeding	kg			Rate only
		(ii) Hydroseeding	ha			Rate only
TOTAL SECTION 3100 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3200		SECTION 3200				
		SELECTION, STOCKPILING AND BREAKING DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS, AND EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS				
B32.01		Excavation of materials from Borrow pits				
		(a) Soft excavation	m ³	17250		-
		(b) Intermediate excavation	m ³	1,725		
		(c) Hard excavation (other than by blasting)	m ³	5,175		-
		(d) Hard excavation by blasting	m ³			Rate only
32.06		Stockpiling of material	m ³	24,150		-
		Only on instruction of the engineer.				
TOTAL SECTION 3200 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	YME	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 3300				
3300		MASS EARTHWORKS				
33.01		Cut and borrow to fill (also using borrow pit stockpile to fill), including free haul up to 0,5 km				
		(a) Material in compacted layer thickness of 200 mm and less, compacted to 90% modified AASHTO density	m ³	3,750		-
33.04		Cut to spoil, including free-haul up to 1,0 km				
		(a) Soft excavation	m ³	3,750		-
		(b) Intermediate excavation	m ³	1,500		-
		(b) Supply,placing and compaction of Rock fill (as per Engineers instruction	Prov. Sum	1	R 990,000.00	R990,000.00
33.09		Material bladed to windrow				
		(a) Windrow existing gravel wearing course, load, haul and stockpile, in for re-use in the gravel shoulder in item B34.01(d)	m ³	2,700		-
33.10		Roadbed preparation and the compaction of the material				
		(b) Compaction to 93% of mod AASHTO density	m ³	5,400		-
33.12		Insitu treatment of roadbed				
		(a) Insitu treatment by ripping, to depth of 150 mm	m ³	5,400		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	YME	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 3300 - CARRY FORWARD TO SUMMARY						

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 3400				
3400		PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01		Pavement layers constructed from gravel taken from cut or borrow, including free haul up to 1,0 km				
		(a) Gravel selected layer compacted to				
		(i) 93% mod AASHTO density, 150 mm layer thickness	m ³	6,225		-
B34.14		Pavement layers constructed from gravel taken from commercial sources				
		(a) Gravel selected layer (G7 material) compacted to				
		(ii) 95% mod AASHTO density, 150mm layer thickness	m ³	6,225		-
		(d) Gravel subbase (chemically stabilised) G6 material compacted to				
		(ii) 96% of modified AASHTO density (200mm)	m ³	6,225		-
B34.15 / B16.02		Overhaul of material for a distance exceeding 1,0 km	m ³ /km	14,998		-
TOTAL SECTION 3400 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3500		SECTION 3500				
35.01		STABILISATION				
		Chemical stabilisation extra over unstabilised compacted layer				
		(b) Subbase				
	LI	(i) Thickness, 200 mm	m ³	6,225		-
35.02		Chemical stabilising agent				
		(g) Cement (CEM II (32,5N) or approved similar). Mechanical modification (extra over untreated layer)	t	249		-
35.04		Provision and application of water for curing	kl	2,850		-
35.13		Extra over items 35.01 for trial sections	m ³	300		-
TOTAL SECTION 3500 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 3600				
3600		Crushed Stone Bases				
36.01		Crushed stone base				
		(c) Constructed from type G2 material obtained from commercial sources and compacted to 85% of relative density				
		(i) Thickness, 150 mm	m ³	0		Rate only
B36.16		Extra over items 36.01 for trial sections	m ³	0		Rate only
TOTAL SECTION 3600 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 5200				
5200		GABIONS				
52.01		Foundation trench excavation and backfilling				
		(a) In solid rock	m ²	400		-
		(b) In all other classes of material	m ²	600		-
52.02		Surface preparation for bedding the gabions	m ²	1,800		-
52.03		Gabions				
		(a) Galvanised gabion boxes,				
		(i) 1.5 m x 1,0 m x 1,0 m size and 80 mm x 100 mm x 2,7 mm diameter galvanised wire mesh	m ³	900		-
		(c) Galvanised gabion mattresses				
		(i) 0,3 m deep x 1,0 m x 1,0 m size and 80 mm x 100 mm x 2,5 mm diameter galvanised wire mesh	m ³	1,125		-
52.04		Filter fabric				
		(a) Grade 2				
		(i) Non woven	m ²	4,700		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 5200 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 5400				
5400		GUARDRAILS				
54.01		Guardrails on timber posts				
		(a) Galvanised	m	1,250		-
54.04		End treatments				
		(d) End treatments in accordance with the drawings where single guardrail sections are used	No	12		-
54.05		Additional guardrail posts				
		(a) Timber	No	20		-
54.06		Reflective plates	No	200		-
TOTAL SECTION 5400 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5600		SECTION 5600				
B56.01		ROAD SIGNS				
		Road sign boards with painted or coloured semi-matt background.				
		(c) Prepainted galvanised steel plates (chromadek or approved equivalent)				
		(i) Area not exceeding 2 m ²	m ²	100		-
		(ii) Area exceeding 2 m ² but not 10 m ²	m ²	50		-
56.02		Extra over items 56.01 for using				
		(a) Background of retro-reflective material				
		(i) Class 1	m ²	50		-
		(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material				
		(ii) Class III	m ²	25		-
56.03		Road sign supports (overhead road sign structures excluded)				
		(a) Steel tubing	t	1		-
56.05	LI	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	11		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						-

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
56.06	LI	Balance brought forward				
		Extra over item 56.05 for cement treated soil backfill	m ³	11		-
TOTAL SECTION 5600 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5500		SECTION 5500				
		FENCING				
55.01		Clearing the fence line (2.0m wide strip)	km	1		-
55.02		Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed				
		(c) Diamond mesh				
		(i) 1,2 m high	m ²	1,200		-
TOTAL SECTION 5500 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5700		SECTION 5700				
		ROAD MARKINGS				
57.02		Retro-reflective road marking paint				
		(a) White lines (broken or unbroken)				
		(i) 100 mm wide	km	5		-
		(ii) 200 mm wide	km	0		Rate only
		(iii) 300 mm wide	km	0		Rate only
		(b) Yellow lines (broken or unbroken)				
		(i) 100 mm wide	km	10		-
		(d) White lettering and symbols	m ²	100		-
		(e) Yellow lettering and symbols	m ²	0		Rate only
		(f) Transverse lines, painted island and arrestor bed markings (any colour)	m ²	0		Rate only
57.05		Road studs				
		(a) Bi-direction (1) Ferro Lynx steel body with shank (43 element glass reflective lens)	No	0		Rate only
57.06		Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)	km	15		-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL SECTION 5700 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5800		SECTION 5800				
58.01		LANDSCAPING AND PLANTING PLANTS				
		Trimming				
		(a) Machine trimming	m ²	2,000		-
	LI	(b) Hand trimming	m ²	400		-
58.03		Preparing the areas for grassing				
		(a) Ripping	ha	0.5		-
		(b) Scarifying for loosening topsoil	ha	0.5		-
		(e) Providing and applying chemical fertilisers and / or soil improvmeent material				
		(ii) Superphosphate	t	1		-
58.04		Grassing				
		(c) Hyrdoseeding				
		(i) Providing an approved seed mixture for hydroseeding	kg	100		-
		(iii) Hyrdoseeding	ha	1		-
TOTAL SECTION 5800 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 5900				
5900		FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01		Finishing road and road reserve				
		Single carriageway road				
		(i) Road Section D3954 & D3958	km	5		-
59.02		Treatment of old roads and temporary deviations	km	5		-
TOTAL SECTION 5900 - CARRY FORWARD TO SUMMARY						-

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
7300		SECTION 7300				
7300		CONCRETE BLOCK PAVING FOR SIDEWALK				
73.01		Concrete block paving				
LI		Segmented paving using 25 MPa concrete S-A blocks				
		(ii) 80 mm thick, interlocking, colour, natural	m ²	39,195.00		-
73.02		Cast insitu concrete edge and intermediate beams (concrete class 25/19)				
LI		(i) 300 mm concrete edge beams	m ³	300		-
		(ii) 150mm concrete edge beam	m ³	12		-
73.03		Provision of approved herbicide and ant poison				
		(a) Provision of materials	PC Sum	1	50,000.00	50,000.00
		(b) Contractor's charges and profit added above item 73.03 (a)	%	50,000		-
73/3300		Cut and borrow to fill, including free haul up to 0.5km				
		(a) Gravel material in compacted layer (200mm)				
		(ii) Compacted to 93% of modified AASHTO density	m ³			Rate only

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
TOTAL CARRIED FORWARD						

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
73/33.10		Balance carried forward				
		Roadbed preparation and compaction of material				
		(b) Compaction to 93% of modified AASHTO density	m ³	1,238		-
73/3400		Pavement layers constructed from gravel taken from cut or borrow, including free haul up to 1km				
		(d) Gravel subbase (G6) material compacted to				
		(i) 95% of modified AASHTO density (150mm)	m ³	1,238		-
TOTAL SECTION 7300 - CARRY FORWARD TO SUMMARY						-

SCHEDULE A: ROADWORKS

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
8100		SECTION 8100				
B81.02		TESTING MATERIALS AND WORKMANSHIP				
		Other special tests requested by the engineer				
		(a) Cost of testing	Prov sum	1	200,000.00	200,000.00
		(b) Contractor's charges and profit added to Item B81.02 (a)	%	200,000.00		-
TOTAL SECTION 8100 - CARRY FORWARD TO SUMMARY						

ROADS AGENCY LIMPOPO

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.0KM)

SUMMARY OF BILL OF QUANTITIES
CALCULATION OF PROJECT SUM

A ROADWORKS

SECTION	DESCRIPTION	AMOUNT
Section 1200	General Requirements and Provisions	
Section 1300	Contractor's Establishment on Site and General Obligations	
Section 1400	Housing, Offices and Laboratories for the Engineer's Site Personnel	
Section 1500	Accommodation of Traffic	
Section 1700	Clearing and Grubbing	
Section 1800	Dayworks	
Section 2100	Drains	
Section 2200	Prefabricated Culverts	
Section 2300	Concrete Kerbing, Concrete Channelling, Chutes and Downpipes and Concrete Linings for Open Drains	
Section 3100	Borrow Materials	
Section 3200	Selection, Stockpiling and Breaking Down the Material from Borrow Pits, Cuttings and Existing Pavement Layers, and Placing and Compacting of the Gravel Layers	

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

Section 3300	Mass Earthworks	
Section 3400	Pavement Layers of Gravel Material	
Section 3500	Stabilisation	
Section 3600	Crushed Stone Bases	
Section 5200	Gabions	
Section 5400	Guardrails	
Section 5500	Fencing	
Section 5600	Road Signs	
Section 5700	Road Markings	
Section 5800	Landscaping and Planting Plants	
Section 5900	Finishing the Road and Road Reserve and Treating Old Roads	
Section 7300	Concrete Block Paving for Roads	
Section 8100	Testing Materials and Workmanship	
SUBTOTAL - A ROADWORKS		

SUMMARY OF COSTS

Subtotal - A Roadworks	
Preliminary Total 1	
Contingencies, allow for 5%, on Preliminary Total 1	
Provisional Sum for Contract Price Adjustment (CPA) (5%),	

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

on Preliminary Total 1	
Preliminary Total 2	
VAT 15 %	
TOTAL PROJECT CONSTRUCTION COST	

UPGRADING OF GRAVEL ROAD IN SEKGOPO VILLAGE IN LIMPOPO PROVINCE (5.00KM)

C.122