

GA-MAKGOBA(MATHABATHA) REGRAVELLING AND STORMWATER PROJECT

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
1200		GENERAL REQUIREMENTS AND PROVISIONS				
B12.01		EXCAVATIONS OF MATERIAL WITHIN THE FOLLOWING DEPTH RANGES BELOW AROUND LEVELS FOR EXPOSING OR SEARCHING EXISTING SERVICES				
		a) Depth between 0 and 2,0m	m³	35	50.00	R 1,750.00
		(i) LI soft material	m³	10	60.00	R 600.00
		(ii) Intermediate material				
B12.03		(1) RELOCATION OR PROTECTION OF SERVICES AS ORDERED BY ENGINEER				
		(a) Cost of work	Prov sum	1	R 10,000.00	R 10,000.00
		(b) Handling Costs and Profit in respect of item (a) above	%	R10,000.00	10%	R 1,000.00
B12.04		PROVISION FOR COMMUNITY LIAISON OFFICER				
		a) Payment of the Community Liaison Officer	Prov sum	1	R 18,000.00	R 18,000.00
		b) Contractor's handling cost and profit in respect of item B12.04 (a)	%	18000.00	10%	R 1,800.00
B12.05		CONSTRUCTION HEALTH AND SAFETY OBLIGATIONS				
		a) Mine Health and Safety obligations	Month	4	15000.00	R 60,000.00
		b) Safety file	PC Sum	1		R 20,000.00
		c) Provision of Security Guards	PC Sum	1		R 60,000.00
		d) Handling Cost and Profit of item b and c above	%	80000.00	10%	R 8,000.00
B12.06		COMPENSATION OF LANDOWNERS				
		a) Prime Cost Sum	PC Sum	1	20000.00	R 20,000.00
		b) Handling Cost and Profit of item B12.06(a) above	%	20000.00	10%	R 2,000.00
B12.07		SURVEYORS WORK, SETTING OUT AND PROTECTION OF BEACONS (contractor to provide chartered surveyor for all surveyings)	Prov Sum	1	R 90,000.00	R 90,000.00
				R90,000.00	10%	R 9,000.00
1200		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
1300		CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01		The contractor's general obligations:				
		(a) Fixed obligations	L/Sum	1	R 150,000.00	R 150,000.00
		(b) Value-related obligations	L/Sum	1	R 10,000.00	R 10,000.00
		(c) Time-related obligations	Month	4	R 60,000.00	R 240,000.00
1300		TOTAL CARRIED FORWARD TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
1500		ACCOMMODATION OF TRAFFIC				
B15.01		Accommodating traffic and maintaining deviations incl road signs	km	2		R -
B15.02		Earthworks for deviations				
		(a) Shaping of deviations	km	2		R -
		(b) Cut and borrow to fill	m ³			
		(c) Cut to spoil	m ³			
B15.02		Temporary traffic-control facilities:				
		(a) LI Flag persons	man-day	60		R -
		(b) LI Portable STOP and GO-RY signs	No.	2		R -
		(d) LI Amber Flicker lights	No.			
		(e) LI Road signs, R- and TR- series;				
		(i) LI 1200mm	No.	4		R -
		(ii) LI 1500mm	No.	4		R -
		(f) LI Road signs, TW- series				
		(i) LI 1500mm	No.	4		R -
		(ii) LI 2400mm x 400mm	No.	4		R -
		(g) LI Road signs, STW-, DTG-, TGS- and TG-Series excluding delineators and barricades				
		(i) LI 1600mm x 1200mm	m ²	4		R -
		(ii) LI 2400mm x 1800mm	m ²	4		R -
		(h) LI Delineators DTG50J, size indicated:				
		(i) Single	No.	15		R -
		(ii) Mounted back to back	No.	20		R -
		(i) LI Movable barricade/road sign combination with an affective width of 6m.	No.	4		R -
1500		TOTAL CARRIED FORWARD				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
1800		DAYWORK AND HIRE OF CONSTRUCTION PLANT				
B18.01		Labour:				
		(a) Normal working hours:				
		(i) Team Leader X 2	hour	Rate Only		Rate Only
		(ii) Semi-skilled labourer X10	hour	Rate Only		Rate Only
		(iv) Labourer X 20	hour	Rate Only		Rate Only
		(b) Overtime and Saturdays:				
		(i) Team Leader	hour	Rate Only		Rate Only
		(ii) Semi-skilled labourer	hour	Rate Only		Rate Only
		(iv) Labourer	hour	Rate Only		Rate Only
B18.02		Hire of construction equipment:				
		1) Bulldozer with ripper:				
		(i) 70kW - 170kW	hour	Rate Only		Rate Only
		2) Self-propelled grader (100 to 200kW)	hour	Rate Only		Rate Only
		3) Front-end loader with 2 to 3 m3 capacity	hour	Rate Only		Rate Only
		4) Tip truck or dumper with:				
		(i) 5 m ³ capacity	hour	Rate Only		Rate Only
		(ii) 10 m ³ capacity	hour	Rate Only		Rate Only
		5) Air compressor with:				
		(i) 6 m3/min. capacity with two pneumatic drills	hour	Rate Only		Rate Only
		6) Flat wheel roller (steel drums) with 10 to 20 tons capacity	hour	Rate Only		Rate Only
		7) Pneumatic-tyred roller with 10 to 25 tons capacity	hour	Rate Only		Rate Only
		8) Vibratory roller of 8 tons capacity	hour	Rate Only		Rate Only
		9) TLB (tractor/loader/backhoe)	hour	Rate Only		Rate Only
1800		TOTAL CARRIED FORWARD				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
		BROUGHT FORWARD				
		10) 13 500 litre water tanker	hour	Rate Only		Rate Only
		11) 1800 litre water tanker	hour	Rate Only		Rate Only
		12) Bomag 65	Daily	Rate Only		
		13) Bomag 90	Daily	Rate Only		Rate Only
		14) Excavator 25 tons	hour	Rate Only		
		15) Excavator 30 tons	hour	Rate Only		Rate Only
		16) Generator	Daily	Rate Only		Rate Only
		17) Waterpump	Daily	Rate Only		
		18) Concrete saw cutter	Daily	Rate Only		Rate Only
		19) Flatbed truck	hour	Rate Only		Rate Only
		20) Lowbed	hour	Rate Only		Rate Only
1800		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
2100		DRAINS				
21.01		Excavation for open drains:				
		(a) Excavating soft materials situated within the following depth ranges below the surface level:				
		(i) 0 m up to 1,5m	m ³	6000	R	-
		(ii) Exceeding 1,5m and up to 3,0m	m ³	0	R	-
		(b) Extra over sub item 21.01(a) for excavation in hard material, irrespective of depth	m ³	300		
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
22.05		Portal and rectangular culverts (b) without prefabricated floor slabs (size and type indicated)				
		(i) 900mm x 450mm	m	186	R	-
		(ii) 900mm x 600mm	m		Rate Only	
		(iii) 1800mm x 1800mm	m		Rate Only	
		(iv) 2400mm x 1800mm	m		Rate Only	
		(v) 2400mm x 2400mm	m		Rate Only	
		(vi) 3000mm x 2400mm	m		Rate Only	
22.07		Cast in-situ concrete and formwork:				
		(a) In class A bedding, screeds and the encasing for pipes, including formwork (class 15/19)	m ³			
		(b) In floor slabs for portal or rectangular culverts, including formwork and Class U2 surface finish:				
		(i) Class 25/19 concrete	m ³	50	R	-
		(c) In inlet and outlet structures, catchpits, manholes, thrust blocks and anchor blocks, excluding formwork but including Class U2 surface finish				
		(i) Class 25/19 concrete	m ³	15	R	-
		(d) Formwork of concrete under sub item 22.07 (c) above				
		(i) Class F1 surface finish	m ²	163	R	-
		(ii) Class F2 surface finish	m ²	244	R	-
		(iii) Class F3 surface finish	m ²	74	R	-
2200		TOTAL CARRIED FORWARD				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
					BROUGHT FORWARD	0.00
22.08		Concrete backfill for culverts, class 15/19	m ³	63		R -
22.10		Steel reinforcement:				
		(a) Mild steel bars	t	0.21		R -
		(b) High tensile steel bars	t	0.5		R -
		(c) Welded steel fabric	kg	1680		R -
22.12		Removing Existing Concrete:				
		(a) Plain Concrete	m ³	2		R -
		(b) Reinforced Concrete	m ³	2		R -
22.13		Removing and re-laying of existing pipes				
		(a) On class B bedding				
		(i) 600 mm dia.	m	Rate Only		Rate Only
		(ii) 750 mm dia.	m	Rate Only		Rate Only
22.14		Removing and stacking existing pipes (all sizes)	m	20		R -
22.18		Brickwork				
		(b) 230mm thick	m ²	50		R -
22.23		Service ducts				
		(a) 110mm dia. Internal PVC	m	108		R -
22.25		Overhaul on excavated material carted to spoil, backfill material, existing structures Demolished and removed to spoil and Removing and relaying, and removing Stacking existing prefabricated culverts For haul in excess of the free-haul Distance. (1km free-haul)	m ³ -km	1312		R -
2200		TOTAL CARRIED FORWARD TO SUMMARY				
2300		CONCRETE KERBING, CONCRETE CHANNELING, OPEN				
23.02		CHUTES AND CONCRETE LININGS FOR OPEN DRAINS Concrete kerbing-channeling combina- tion:				
23.03		Concrete chutes:				
		(a) LI Prefabricated concrete chutes as	m			Rate Only
23.05		Inlet, outlet, transition and similar structures				
		(a) LI Open chutes /trapezoidal channel(Class 25/19 concrete):				
		(i) Chute inlets Type A	No.			Rate Only
		1) On slope	No.			Rate Only
		2) At low point	No.			Rate Only
		(ii) Chute outlets (Type C)	No.			Rate Only
		TOTAL CARRIED FORWARD				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
BROUGHT FORWARD						
23.06		Inlet, outlet, transition and similar structures: (Including in-situ concrete chutes				
		LI Cast in stone pitching lining for trapeziod channel				
		stone pitching laid in 1.4 cement mortar	m ²	6000	R	-
		(b) LI Formwork (Class F1 surface finish) for Type "grouted stone pitching	m ²	350	R	-
		(i) To side with form work on both internal And external faces (each face measured)				
		(c) LI Class U2 surface finish to cast in situ edge beams - 200mmx300mm concrete	m ²	Rate Only	Rate Only	
23.07		Trimming of excavations for concrete/stone pitch lined open drains:				
		(a) In soft material	m ²	3000	R	-
		(b) In hard material	m ²	300	R	-
23.08		Stone pitch/Concrete lining for open drains:				
		(a) LI Cast in situ concrete lining (Class 25/19 concrete):				
		(i) Side drains - Type "A"	m ³	Rate Only	Rate Only	
		(ii) Side drains - Type "D"	m ³	Rate Only	Rate Only	
		(iii) Side drains - Type "F"	m ³	Rate Only	Rate Only	
		(b) LI Class U2 surface finish to cast in situ concrete:				
		(i) Side drains	m ²	Rate Only	Rate Only	
23.09		Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):				
		(b) LI To side with formwork on both internal and external faces (each face measured)	m ²	Rate	Rate Only	
		(c) LI To ends of slabs and top	m ²	6	R	-
23.10		LI Sealed joints in concrete linings of open drains (2 layers of 3-ply malthoid) 300mm wide as supplied by ABE or similar as approved	m	Rate Only	Rate Only	
23.11		LI Concrete screed for backfill below chutes(class 20/19)	m ³	4	R	-
23.12		Steel reinforcement				
		(c) Welded steel fabric	kg	Rate Only	Rate Only	
2300		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
3100		BORROW MATERIALS				
B31.01		Excess overburden				
		(a) 0m up to 1,5m	m³	2000	R	-
		(b) Exceeding 1,5m up to 3,0m	m³	400	R	-
31.03		Finishing -off borrow areas in:				
		(a) Hard material	ha	0.01	R	-
		(b) Intermediate Material	ha	1	R	-
		(c) Soft Material	ha	0.01	R	-
3100		TOTAL CARRIED FORWARD TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
3300		MASS EARTHWORKS(EMBARKMENT)				
33.01		Cut and borrow to fill, including freehaul up to 1,0 km.				
		<u>EARTHWORKS (EMBARKMENT)</u>				
		<u>TRENCHES FOR STORMWATER EARTH DRAINAGE AND USING CUT TO FILL METHOD FOR EMBARKMENT)</u>				
		Excavate in all materials for trenches, backfill, compact and dispose of surplus material :				
		(i) Along the mountain embarkment . Embarkment to be processed in 300mm layer and compacted to 93% mod-aashto	m³	5355	R	-
33.03		Extra over item 33.01 for excavating and breaking down material in:				
		(a) Intermediate excavation	m³	1655	R	-
		(b) Hard excavation	m³	645	R	-
33.04		Cut to spoil, including free haul up to 1, 0 km. Material obtained from :				
		(a) Soft excavation	m³		R	-
		(b) Intermediate excavation	m³		R	-
		(e) Boulder excavation Class B	m³		R	-
B33.10		Roadbed preparation and the compaction of material				
		(b) Compaction to 93% of modified AASHTO density	m³	2400	R	-
33.12		In situ treatment of roadbed:				
		(a) In situ treatment and removal of debris	m³	180	R	-
33.13		Finishing-off cut and fill slopes, medians and interchange areas:				
		(a) Cut slopes	m²	180	R	-
		(b) Fill slopes	m²	180	R	-
		TOTAL CARRIED FORWARD				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
BROUGHT FORWARD						
33.14		Extra over item 33.01 for excavating material from the pavements and fills of existing roads:				
		(a) Non-cemented material	m ³			R -
33/16.02		OVERHAUL				
		Overhaul (extra over items 33.01 & 33.04 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m ³ -km	2400		R -
3300		TOTAL CARRIED FORWARD TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
3400		PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01		Pavement layers constructed from gravel taken from cut or borrow, incl. free-haul up to 1,0 km.				
		(a) Gravel Selected layer compacted to: (i) 95% of modified AASHTO density (200mm compacted layer thickness)	m ³	2400		R -
34.02		Extra over item 34.01 for excavation of material in:				
		(a) Intermediate excavation	m ³	2400		R -
		(b) Hard excavation	m ³			Rate Only
34.04		In-situ reconstruction of existing layers as:				
		(a) Gravel Selected layer compacted to 93% of modified AASHTO density				
34.10		(a) Vibratory rollers				
		(d) Flat-wheeled rollers	m ²			Rate Only
		(e) Pneumatic-tyred rollers	m ²			Rate Only
34/16.02		OVERHAUL				
		Overhaul (extra over items 34.01 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m ³ -km	2400		R -
3400		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
5100		PITCHING, STONework AND PROTECTION AGAINST EROSION				
51.01		Stone pitching:				
		(b) LI Grouted stone pitching	m ²	300		R -
51.02		Riprap				
		(a) LI Packed Riprap average nominal diameter of 200mm with SG of 2.1	m ³	20		R -
51.04						
5100		TOTAL CARRIED FORWARD TO SUMMARY				
5200		GABIONS				
52.01		Foundation trench excavation and backfilling:				
		(b) LI In all other classes of materials	m ³	100		R -
52.02		Surface preparation for bedding the gabions	m ²	20		R -
52.03		Gabions:				
		(a) LI Galvanized gabion boxes:				
		(iii) 2,0m x 1,0m x 1,0m with 80mm x 100mm mesh and 7.3 diam mesh wire	m ³			R -
		(b) Galvanized gabion mattresses, 0,3m deep with 80mm x 100mm mesh and diaphragms at 1,0 centres and 7.3mm diameter mesh wire	m ³	60		R -
52.04		Filter fabric				
		(a) LI Bidim grade A4 or approved equivalent	m ²	500		R -
5200		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
5600		ROAD SIGNS				
		Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:				
		(c) Prepainted galvanized steel plate (chromadek 1,6mm thick or approved equivalent)				
		(i) Area not exceeding 2m ²	m ²	20	R	-
		(ii) Area exceeding 2m ² but not 10 m ²	m ²	12	R	-
56.02		Extra over B56.01 for using:				
		(a) Background of retro-reflective material:				
		(iii) Class I	m ²	20	R	-
		(b) Lettering, symbols, numbers, arrows, emblems				
		(ii) Class III	m ²	10	R	-
56.03		Road sign supports (overhead road sign structures excluded)				
		(a) Steel tubing (wall thickness 3mm)				
		(i) 75mm	t	0.4	R	-
		(ii) 100mm	t	0.4	R	-
		(b) Timber 150mm	m	100	R	-
56.05		Excavation and backfilling for road sign supports (not applicable to kilometer posts)	m ³	3.5	R	-
56.06		Extra over item 56.05 for cement-treated soil backfill	m ³	3.5	R	-
56.07		Extra over item 56.05 for rock excavation	m ³	1.5	R	-
56.10		Danger plates at culverts				
		(a) 200mm*800mm	No	32	R	-
5600		TOTAL CARRIED FORWARD TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
5900		FINISHING THE ROAD AND ROAD RESERVE				
59.01		Finishing the road and road reserve:				
		(b) Single carriageway road	km	2	R	-
59.02		Treatment of old roads and temporary diversions	km	2	R	-
		TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
8100		TESTING MATERIALS AND WORKMANSHIP				
81.02		Other special tests requested by the Engineer:				
		(a) Cost of testing	P. Sum	1	R 100,000.00	100000.00
		(b) Charge on provisional sum for overheads and profits	%	#####	10% R	10,000.00
		TOTAL CARRIED FORWARD TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
		PART 1: 4/3300 x 2100 INSITU CULVERT				
		FOUNDATIONS FOR STRUCTURES (Section 6100)				
2/61.01		Additional foundation investigations	Prov. Sum	1	15000.00	15000.00
		(b) Charge on provisional sum for overheads and profits	%	#####	10% R	1,500.00
2/61.02		Excavation:				
		(a) Excavating soft material situated within the following successive depth ranges:				
		(i) 0m up to 2 m	m³	230	R	-
		(ii) Exceeding 2 m and up to 4 m	m³	30	R	-
		(b) Extra over subitem 61.02(a) for excavation in hard material irrespective of depth	m³	30	R	-
		(c) Extra over subitem 61.02(a) for additional excavation required by the Engineer after the excavation has been completed	m³	10	R	-
2/61.03		Access and drainage:				
		(a) Access	Lump Sum	1	R	-
2/61.04		Backfill to excavations utilizing:				
		(a) Material from the excavation	m³	150	R	-
		(b) Imported material	m³	15	R	-
		(c) soil cement	m³	15	R	-
2/61.05		Fill within a restricted area (extra over item 33.01)	m³		R	-
2/61.06		material imported for backfill and foundation fill and fill for caissons	m³-km	190	R	-
		TOTAL CARRIED FORWARD				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
2/B61.08		Foundation fill consisting of:				
		(a) Rock fill	m ³	20		R -
		(b) Compacted granular material.	m ³			R -
		(c) Floor slab Mass concrete, class 25/38	m ²			R -
		(d) Concrete screed, 75 mm thick, class 20/19 concrete	m ²			R -
		FALSEWORK, FORMWORK AND CONCRETE FINISH (Section 6200)				
2/62.02		Vertical formwork to provide:				
		(a) Class F1 surface finish to:				
		(ii) In – and outlets	m ²	50		R -
		(b) Class F2 surface finish to:				
		(i) Cell structure	m ²	6		R -
		(ii) In –and outlets	m ²	50		R -
2/62.03		Horizontal formwork to provide:				
		(c) Class F2 surface finish to:				
		(i) Cell structure	m ²	15		R -
		STEEL REINFORCEMENT FOR STRUCTURES (Section 6300)				
2/63.01		Steel reinforcement for:				
		(a) structure				
		(i) Mild-steel bars	t	0.5		R -
		(ii) High-yield-stress-steel-hot-rolled bars	t	5		R -
		TOTAL CARRIED TO SUMMARY				

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
		<u>CONCRETE FOR STRUCTURES.</u>				
		(Section 6400)				0.00
2B/64.01		Cast in situ concrete:				
		(a) Class 30/19 in:				
		(i) Cell structure including head walls	m ³	24	R	-
		(ii) Inlets and outlets	m ³	21	R	-
2/64.06						
		(b) Reinforced concrete in existing structure	m ³	20	R	-
		<u>NO FINES CONCRETE, JOINTS, BEARINGS, PARAPETS AND DRAINAGE FOR STRUCTURES.</u> (Section 6600)				
2/66.06		Filled joints:				
		(a) Joints measure per square metre:				
		(i) 10 mm thick bitumen impregnated fireboard	m ²		R	-
2/66.14		Dowels:				
		(a) Dowels, 700 mm long galvanized R20 bars, with filter through formwork complete as shown on the drawings	No		R	-
2/66.19		Drainage pipes and weepholes:				
		(b) Weepholes				
		(i) 50 mm dia uPVC class 6 pipe	m		R	-
2/66.21		Synthetic-fibre filter fabric, Bidim Grade A4 or approved equivalent	m ²		R	-
2/66.23		Crushed stone in drainage strips	m ³		R	-
		TOTAL CARRIED TO SUMMARY				
ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
SCHEDULE D		PROVISION FOR STRUCTURED TRAINING				
B12.08		COMMUNITY PARTICIPATION				
		a) PSC Training	L Sum	1	R 30,000.00	R 30,000.00
		b) Compensation for PCS Participation and Meetings	Prov Sum	1	R 6,000.00	R 6,000.00
		c) Overheads, charges & profit on a) above	%	R 30,000.00	10%	R 3,000.00
B12.09		TRAINING				
		b) Generic Skills	Prov Sum	1	R 50,000.00	R 50,000.00
		c) Entrepreneurial Skills	Prov Sum	1	R 50,000.00	R 50,000.00
			%	R 100,000.00	10%	R 10,000.00
		d) Training Venue	L Sum	1	R 10,000.00	R 10,000.00
		TOTAL CARRIED TO SUMMARY				

BILL OF QUANTITIES SUMMARY		
ITEM	DESCRIPTION	AMOUNT R
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
1500	ACCOMMODATION OF TRAFFIC	
1800	DAYWORK AND HIRE OF CONSTRUCTION PLANT	
2100/2200/2300	DRAINS	
3100	BORROW MATERIALS	
3300	MASS EARTHWORKS(EMBARKMENT)	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
5100	PITCHING, STONework AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5600	ROAD SIGNS	
5900	FINISHING THE ROAD AND ROAD RESERVE	
8100	TESTING MATERIALS AND WORKMANSHIP	
6100/6200/6300	FOUNDATIONS FOR STRUCTURES	
6400	CONCRETE FOR STRUCTURES	
B12	PROVISION FOR STRUCTURED TRAINING	
SUBTOTAL		
CONTINGENCIES @ 5%		
SUBTOTAL		
VAT @ 15%		
TOTAL		