CONTRA	CT NAME.: REHABILITATION OF HLOHLOKWE	TO SOFA	YA		
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS				
B12.02 LI	(a) Exposing existing services	Prov Sum	1.00	25,000.00	25,000.00
	(b) Handling costs and charges for the contractor	%		10%	
	(c) Relocating existing services	Prov sum	1.0	35,000.00	35,000.00
	(d) Handling costs and charges for the contractor	%		10%	
B12.04 LI	(i) Provision of a Community Liaison Officer (CLO)				
	(a) Provisional sum for the payment of the Community Liaison Officer	Months PS	6.00		
	(b) Provisinal sum for PSC @ R300p/p/m (10 members max)	Months PS	6.00		
	(c) Handling costs and profit in respect of sub-item B12.04(a)	%		0.10	
B12.05 LI	Training				
	(a) Technical skills	Prov sum	1.00	150,000.00	150,000.00
	(b) Generic and Management Skills	Prov sum	1.00	60,000.00	60,000.00
	(c) Training venue	L/sum	1.00		
	(e) Contractor's handling costs, profit and all other				
	(i) Technical skills	%		10%	
	(ii) Generic and Management skills	%		10%	
B12.06	Compliance with the OHS Act and Construction Regulations				
	(a) Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	L/sum	1.00		
	(b) Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month	6.00		
	(c) Submission of the Health and Safety File	L/sum	1.00		
B12.07	Construction Sign Boards. Rate is to include for all materials, labour and plant for the production and erection of the boards as indicated.(Editing the existing)	No.	2.00		
TOTAL SE	ECTION 1200 CARRIED FORWARD TO SUMMARY				

300 CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATION	ITC.4	DECODIDATION	LIKUT	OT:	AMOUNT
GENERAL OBLIGATION (a) Fixed obligations (b) Value related obligations (c) Time related obligation (d) Fixed obligations (e) Time related obligation (f) Time related obligation (g) Time related obligation (h) Value related obligation (h)	ITEM	DESCRIPTION CONTRACTORS ESTABLISHMENT ON SITE AND	UNIT	QTY	AMOUNT
3,01 The contractor's general obligations (a) Fixed obligations (b) Value related obligation (c) Time related obligation (d) Value related obligation (e) Time related obligation (f) Time related obligation Month 12.00	.500	GENERAL OBLIGATION			
(a) Fixed obligations (b) Value related obligations (c) Time related obligation (d) Time related obligation (e) Time related obligation (e) Time related obligation (f) Time related obligation (h) Ti					
(a) Fixed obligations (b) Value related obligations (c) Time related obligation Month 1.00 (c) Time related obligation Lisum 1.00 Month 12.00	13,01	The contractor's general obligations			
(b) Value related obligation			. ,		
(c) Time related obligation Month 12.00		(a) Fixed obligations	L/sum	1.00	
(c) Time related obligation Month 12.00		(b) Value related obligations	L/sum	1.00	
TOTAL SECTION 1300 CARRIED FOWARD TO SUMMARY		(c) Time related obligation	Month	12.00	
TOTAL SECTION 1300 CARRIED FOWARD TO SUMMARY					
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· · · · · · · · · · · · · · · · · · ·	TOTAL S	ECTION 1300 CARRIED FOWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
1400	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL			
14.01	Office and laboratory accommodation			
	(a) Office (interior floor space only)	m²	40.00	
	(b) Laboratories interior floor space only)	m²	160.00	
	(c) Open concrete working floors,150mm thick	m²	240.00	
	(d) Roofs over open concrete working floors	m²	240.00	
	(e) Ablution units	m²	12.00	
	(f) Stores	m²	18.00	
14,02	Office and laboratory furniture			
	(a) chair	No	20.00	
	(b) Draughtsman's stools	No	2.00	
	(c) High chair for laboratory	No	2.00	
	(d) Desk, complete with drawers and locks	No	4.00	
	(e) Drawing tables	No	1.00	
	(f) Conference tables	No	1.00	
14.03	·	NO	1.00	
14.03	Offices and laboratory fittings installation and equipment			
	(a) Items measured by number			
	(i) 220/250 volt power points	No	3.00	
	(ii) 400/231 volt 3-phase power points	No		Rate only
	iii) Double 80 watt fluorescent light fitting complete	No	4.00	
	(iv) Double 55 watt fluorescent light fittings complete	No	3.00	
	(v) Single incandescent light fittings complete with	No	3.00	
	(vi) Hand wash basin complete with taps and drains	No	2.00	
	(vii) Laboratory basin complete with swanneck taps	No	-	
	(viii) Extractor fans installed complete with own power connections	No	1.00	
	(ix) Fire extinguishes 2,5 kg bef type, complete	No	4.00	
	(x) Air conditioning units with 2,2 kw minimum capacity, mouted and with a suitable power point connection	No	4.00	
	(xi) heater, space-heating type, minimum capacity 1,5kw	No	-	
	(xii) Curing chamber for UCS specimen, complete complete with water connection, including the provision	No	-	
	(xiii) General purpose steel cupboards with shelves	No	2.00	
	(xiv) Steel filing cabinets with drawers	No	2.00	
	(xv) Refrigerator	No	2.00	
	(xvi) Steel plan cabinets	No	1.00	
	(xvii) Floodlights complete with poles and 500 Watt minimum globes	No	4.00	
TOTAL	CARRIED FORWARD			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
ROUGH	FORWARD			
	(b) Prime cost items measured and paid by lump sum			
	(i) Provision of 400/231 volt 3-phase electrical power installation, including all wiring, switchboards,	Lump Sum	1.00	
	(ii) Provision of low pressure gas installation, including gas-storage cylinders	Lump Sum	1.00	Rate only
	(c) Items measured by area			
	(i) Shelving as specified complete with brackets	m²		Rate only
	(ii) Work-benches complete with wooden top, minimum thickness 75mm	m²		Rate only
	(iii) Work-benches complete with wooden top, minimum thickness 25mm	m²		Rate only
	(iv) Constant Temparature baths of Concrete	m²		Rate only
	(v) Foundations for laboratory equipment	m²		Rate only
	(vi) Roller blinds, opaque type	m²	12.00	·
	(vi) Venetian blinds	m²	16.00	
1,04	Car ports			
,,0-1	(a) car ports, as specified at offices and laboratory	No	4.00	
1.07		NO	4.00	
1,07	Rented, hotel and other accommodation			
	(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subclause 1403 (c)(ii)	Month PS	12.00	
	(b) Handling costs and profit in respect of subitem 14.07 (a)	%	-	
	(c) Allow cellfone airtime and data for the Engineer	Month PS	12.00	
4,08	Services			
	(a) Services at offices and laboratories			
	(1) Fixed cost	Lump Sum	1.00	
	(2) Running costs	Month	12.00	
1,10	Provision for Photostat (with scanner) facility	Month PS	12.00	

ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
	T FORWARD	UNIT	QIII		AWOONT
15,00	ACCOMMODATION OF TRAFFIC				
15,01	Accommodating traffic and maintaining temporary deviations for the duration of the project	km	2.00		
15,02	Earthworks for temporary deviations including freehaul up to 1.0km				
	(a) Shaping of temporary deviations (Provisional. Only where ordered)	km	1.02		
	(b) Cut and borrow to fill (Provisional. Only where ordered)	m³	1200		Rate only
	(c) Cut to spoil (Provisional. Only where ordered)	m³			Rate only
15,03 LI	Temporary traffic control facility				
	(a) Flagmen	m.day	1250		
	(b) Portable stop and go signs	No	4		
	(d) Amber flicker lights	No	6		
	(e) Road signs, R & TR- series,1200mm in diameter	No	30		
	(f) Road signs, W& TW- serie,1200mm sides	No	30		
	(h) Danger plates and delineators	No	300		
	(i) Moveable barricades (chevron and ROAD CLOSED types)	No	6		
	(j) Traffic cones	No	100		
	(n) Provision of high visibility safety jackets and safety hats	No	10		
15,05	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations				
	(a) Temporary deviations (Provisional. Only where ordered)	m³	512		
15.06	Watering of temporary deviations to suppress dust for the duration of the project	Prov Sum	50000	3.50	175,000.00
15,07	Blading by road grader of:				
	(b) Existing roads used as temporary deviations	km.pass	255		
15,08	Repairs, alteration and/or additional to existing roads used as deviations	Prov Sum	1	25,000.00	25,000.00
	Allow lump sum for:				
TOTAL SI	ECTION 1500 CARRIED FORWARD TO SUMMARY				

BROUGH	DESCRIPTION T FORWARD	UNIT	QTY	AMOUNT
1700	CLEARING AND GRUBBING			
17,01 LI	Clearing and grubbing	ha	3.20	
17,02	Removal and grubbing of large trees and tree stumps			
	(a) Girth larger than 1m up to and including 2m	No	4.00	
	(b) Girth larger than 2m up to and including 3m	No	6.00	
	(c) Girth larger than 3m up to and including 4m	No	2.00	
17,05 LI	Cleaning out of hydraulic structures			
	(a) Pipes with an internal diameter up to and including 750 mm	m³	10.00	Rate only
	(b) Pipes with an internal diameter exceeding 750	m³	20.00	Rate only
	(d) Box culverts exceeding 1,5 m vertical dimension	m³	120.00	Rate only
TOTAL SE	ECTION 1700 CARRIED FORWARD TO SUMMARY			
	-5 1700 OF INTELLED I ON WAILED TO CONMINIANT			

	22000			
ITEM 1800	DESCRIPTION DAYWORKS	UNIT	QTY	AMOUNT
D18,01	Personnel during normal working hours			
D 10,01	reisonner during normal working hours			
	(a) Unskilled labour	h	25	
	(b) Semi-skilled labour	h	25	
	c) Skilled labour	h	25	
	(d) Ganger	h	25	
	(e) Flagmen	h	25	
D18.02	Personnel outside normal working hours			
	(a) Outside normal working hours and Saturdays			
	(i) Unskilled labour	h	100	
			100	
	(b) Sundays and public holidays			
	(i) Unskilled labour	h	25	
1731	D18.03	Plant		
	(a) Cat D7H Dozer or equivalent	h	25.0	
	(b) Cat 350 Excavator or equivalent	h	25.0	
	c) Cat 428 TLB or equivalent	h	25.0	
	(d) Cat 140G or equivalent	h	25.0	
	(e) Cat 930 Loader or equivalent	h	25.0	
	(f) Hand controlled compactors:			
	(i) Bomaa BW90 Pedestrian roller or equivalent	h	25.0	
	(ii) Vibratorv Plate	h	25.0	
	(iii) Rammers	h	25.0	
	(a) Watercart 10000l	h	25.0	
	(h) 5 m3 Tippers	h	25.0	
	(i) 10 m3 Tippers	h	25.0	
	(k) Compaction Rollers:			
	(i) Vibrator roller	h	25.0	
	(ii) Tamping roller	h	25.0	
	(iii) Grid roller	h	25.0	
TOTAL SE	CTION 1800 CARRIED FORWARD TO SUMMARY	1		

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
21,00	DRAINS	CIVII	QII	Pari SOIT I
21,01 LI	Excavation for open drains			
, 0 1 🚨	Excavating soft material situated within the following depth ranges below the surface level			
	(1) 0m up to 1.5m	m³	1,335.00	
	(2) 1,5m up to 3.0m	m³	350.00	Rate only
21.03 LI	Excavation for sub-soil drainage systems:			
	(a) Excavating soft material situated within the following depth ranges below the surface level.			
	(i) 0 m up to 1,5 m		90	
	(b) Extra over subitem 21,03 (a) for exacavation in			
21,04 LI	Impermable backfilling to subsoil drainage	m³	80.00	
21.05	Banks and dykes	m³	65.00	
21.06	Natural permable material in submoil drainage system (crushed stones)			
	(b) Crushed stone obtained from commercial sources			
	(2) Coarse grade 19mm surfacing stone	m³	290.00	
21.07	Natural permable material in submoil drainage			
	(b) Sand Commercial sources			
	(1) Coarse Grade	m³	320.00	
21.08	Pipes in subsoil drainage systems:			
	(b) Unplasticised PVC pipes and fittings, normal duty			
	(1) 150mm internal dia. Perforated.	m	600.00	
21.09	Polyethylene sheeting 0.15mm tick, or similar,	m²	460.00	
21.1	Synthetic-fibre filter fabric (Grade A2 or equivalent)	m²	440.00	
21.12	Concrete/brick work outlet structures,manhole boxes			
	(a) Outlet Structures	no	2.00	
	(c) Junction boxes	no	6.00	
	(d) Cleaning eyes	no	7.00	
21.13	Concrete caps for sub-soil drain pipes	no	rate only	
21.15	Overhaul for material hauled in excess of 1.0km free-	m³.km	266.00	
21.17	Test flushing of pipe subsoil drains	m	10.00	
21,19 LI	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO	m³	89.00	
TOTAL S	ECTION 2100 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
22,00	PREFABRICATED CULVERTS	SIVII	QII	AWOONT
	Excavation			
	(a) Excavating soft material situated within the following depth ranges below the surface level:			
LI	(1) 0 m up to 1.5 m	m³	189.00	-
	(2) Exceeding 1,5 m and up to 3,0 m	m³	252.00	
	(3) Exceeding 3,0 m and up to 4,5 m	m³	-	Rate only
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m³	88.20	
	(b) Extra over subitem 22.01(a) for excavation by hand	m³	150.00	
22,02 LI	Backfilling:			
	(a) Using the excavated material	m³	238.20	
		3	300.00	
	(b) Using imported selected material	m³		
	(c) Extra over sub items 22.01(a)and (b) for soil cement backfilling with 5% cement	m³	400.00	
22,03	Concrete pipe culverts			
	(c) On a class B bedding			
	600 mm 100D	m	42.00	
	750 mm 100D	m	10.00	Rate only
				Nate only
	900 mm 100D	m	28.00	
22,05	Portal and rectangualr culverts			
	Complete with Cast-in-situ floor slabs			
	(a) 750 x 750mm concrete class S	m	300.00	Rate only
	b) 900x450mm concrete class S	m	30.00	Rate only
	(c) 900x600mm concrete concrete class S	m	150.00	Rate only
	· /			
	(d)1200x900mm concrete class S	m	180.00	Rate only
	(e) 1800 x 1800mm Concrete class s	m	30.00	Rate only
	(f) 2400 x 2400mm Concrete class s	m	30.00	Rate only
22,12	Removing existing concrete (including existing pipes which cannot be re-used)		-	
	(a) Plain concrete	m³	41.00	
	(b) Reinforced concrete	m³	41.00	
22,17 <mark>L</mark> I	Manholes, catchpits, precast inlet and outlet			
22,17 LI				
	(c) Cast-in-situ inlet and outlet structures including :			
TOTAL C	ARRIED FORWARD			

DESCRIPTION	UNIT	QTY	AMOUNT
HT FORWARD	1 OINII	ı QIT	 AMOUNT
(i) For pipe culverts of the following diameters:			
(1) 600mm dia.	No	7	
(2) 900mm dia.	No	5	
(ii) For Portal box culverts of the following sizes:			
(1) 750x750mm	No	30	Rate only
(2) 900x450mm	No	6	Rate only
(3) 900x600mm	No	8	Rate only
(4)1200x900mm	No	5	Rate only
ECTION 2200 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	U.II.	2	7
23.01 LI	Concrete kerbing			
	(a) Precast kerbing to SABS 927			
	(i) Figure 8b (mountable) kerb on concrete bed	m	6,100.00	Rate only
	(b) 300x200 Concrete Edge beam (25 Mpa)	m	1,000.00	Rate only
23,02 LI	Concrete kerbing-channeling combination			
	Figure 3 Kerb and channel combination for bus/taxi bays as per detail drawing	m	2,500.00	Rate only
23,03	Cast in-situ concrete chutes (measured by components)			
	(a) Concrete			
	(1) Class 25/19	m³	150.00	Rate only
	(b) Formwork			
	(1) Smooth	m²	150.00	Rate only
23,07 <mark>LI</mark>	Trimming of excavations for concrete-lined open drains			
	(a) In soft material	m²	22.00	
	(b) In hard material	m²	533	
23,08 LI	Concrete lining for open drains			
	(a) Cast in-situ class 25/19 concrete	m³	66.00	
	(b) U2 finish	m²	120.00	
23.09	Formwork to cast in situ concrete lining for open drains (class F2 surface finish)			
	(a) To sides with formwork on the internal face only	m²	915.00	Rate only
	(b) To sides with formwork on both internal and external faces	m²	103.00	
	(c) To ends of slabs	m²	33.00	
	Sealed joints in concrete linings of open drains	m	62.00	
23.12	Steel reinforcement			
	(b) High-tensile steel bars	t	2.30	
	(c) Welded steel fabrics	t	300.00	Rate only
23.13	Polyethylene sheeting (0,15mm thick) for concrete- lined open drains	m²	522.00	
TOTALS	ECTION 2300 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
3100	BORROW MATERIALS	0	٠		74
B31.01	Excess overburden				
D31.01					
	(a) Depth up to and including 0,5m	m³	1,653.00		
	(b) Depth exceeding 0,5m and up to 1,0m	m³	2,669.00		
			·		
31,03	Finishing-off borrow areas in (as per borrow pit rehabilitation plans)				
	(b) Intermediate material	ha	0.78		
	(c) Soft material	ha	1.03		
31.04	Compensation to landowners				
31.04					
	(a) Compensation to landowners	Prov. Sum	1	90,000.00	90,000.00
	(b) Handling cost and profit in respect of sub-item	%		10.0%	
TOTALS					

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
3200	SELECTION,STOCKPILING AND BREAKING DOWN THE MATERIAL FROM BORROW PITS AND CUTTINGS,AND PLACING AND COMPACTING THE GRAVEL LAYERS	UNIT	QIT	AWOUNT
32.01	Providing a crushing and/or screening plant (mobile			
	(a) Single stage crusher	No	1.00	Rate only
	Crushing and screening			
	(b) Single-stage crushing	m³	35000	Rate only
	Removal of oversize pavement material	m³	300	Rate only
	Additional normal grid rolling	m³	5,000.00	Rate only
	Stockpiling material	m³	10,000.00	Rate only
	Monthly Crushing Unit Ps&Gs	Month		
TOTAL S	ECTION 3200 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
BROUGH 33.00	T FORWARD MASS EARTHWORKS			
33,01	Cut and borrow to fill, including free-haul up to 0,5 km			
	(a) Gravel material in compacted layer thickness of 200m and less.			
	(1) Compacted to 90% of Mod AASHTO density	m³		Rate only
	(2) Compacted to 93% of Mod AASHTO density	m³	1,687.50	
	(3) Eight-roller-passes compaction	m³	1,687.50	
	(c) Rockfill(as specified in subclause 3209c)	m³		Rate only
	d) Rock protection at the toes of the fill	m³		Rate only
	(e) Pioneer layer	m³		Rate only
33,02	Sand fills (as descried in clause 3302,including free haul up to 0,5km)			
	(a) Non-plastic sand with up to 20% passing through	m³		Rate only
	(b) Non-plastic sand with more than 20%passing	m³		Rate only
33.03	Extra over item 33.01 for excavating and breaking down material in:			
	(b) Hard excavation	m³	30.00	
	(c) Boulder excavation class A	m³	12.00	
	(d) Boulder excavation class B	m³	22.00	
33.04	Cut to spoil, including free haul up to 0,5km.Material			
	(a) Soft excavation	m³	337.50	
	(b) Hard excavation	m³		Rate only
	(c) Boulder excavation class A	m³		Rate only
	(d) Boulder excavation class B	m³		Rate only
33.05	Overbreak in hard and boulder class A excavation	m2		Rate only
	(a) Vibrator rollers	m².Pass		Rate only
33,07 LI	Removal of unsuitable material			
	(a) In layer thickness of 200mm and less:	m³	506.25	
	(b) In layer thickness exceeding 200mm	m³	1,500.00	Rate only
TOTAL C	I ARRIED FORWARD TO SUMMARY			

Raduced preparation and compaction of material (a) Compaction to 90% of modified AASHTO density (b) Compaction to 93% of modified AASHTO density (a) in situ treatment of modified (a) in situ treatment of modified (a) in situ treatment of proping (b) in situ treatment of proping (c) in situ treatment of modified interchange areas (a) Cut slopes (b) Fill slopes (c) Cut slopes (c) Cut slopes (d) Density of moderial hauded in excess of free-haul distance of 1.0km m* 2.061.00 M*-km 3.375.00	ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
(a) Compaction to 90% of modified AASHTO density (b) Compaction to 93% of modified AASHTO density (c) In situ treatment of roaded (d) In situ treatment by ripping (e) Fill slopes (h)			UNII	Į QII	AWOUNT
(b) Compaction to 93% of modified AASHTO density m² 1,755.00 In situ treatment of roadbed (a) In situ treatment by ripping m² 1,575.00 (b) In situ treatment by stasting m² 233.00 Finishing-off cut and fill slope, medians and interchange areas (a) Cut slopes m² 2,051.00 (b) Fill slopes m² 255.00 Operatual of material hauled in excess of free-haul distance of 1.0km 3.375.00	33.1	Roadbed preparation and compaction of material			
in situ treatment of roadbed (a) In situ treatment by lipsing (b) In situ treatment by blasting (c) In situ treatment by blasting (d) In situ treatment by blasting (e) In situ treatment by blasting (finishing-off cut and fill slope, medians and interchange areas (e) Cut slopes (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope, medians and interchange areas (finishing-off cut and fill slope) (finishing-of		(a) Compaction to 90% of modified AASHTO density	m³	5,000.00	Rate only
(a) in situ treatment by ripping (b) in situ treatment by leasting (c) in situ treatment by leasting (d) in situ treatment by leasting (e) Cut slopes (e) Cut slopes (f) Fill slopes (f) Fill slopes (f) Fill slopes (f) Cverhaul of material hauled in excess of free-haul distance of 1.0km m*-km m*-km gradient of material hauled in excess of free-haul distance of 1.0km		(b) Compaction to 93% of modified AASHTO density	m³	1,755.00	
(b) in situ treatment by blasting m² 233.00 Finishing-off cut and fill slope, medians and interchange areas (a) Cut slopes m² 2,051.00 (b) Fill slopes m² 255.00 Overhaul of material haufed in excess of free-haul distance of 1.0km The standard of the	33,12	In situ treatment of roadbed			
Finishing-off cut and fill slope, medians and interchange areas (a) Cut slopes (b) Fill slopes (c) Verhaul of material hauled in excess of free-haul distance of 1.0km The state of 1.0k		(a) In situ treatment by ripping	m³	1,575.00	
Interchange areas (a) Cut slopes (b) Fill slopes (c) Verthaul of material hauled in excess of free-haul distance of 1.0km 3.375.00		(b) In situ treatment by blasting	m³	233.00	
(b) Fill slopes m² 255.00 Overhaul of material hauled in excess of free-haul distance of 1.0km 3.375.00	33,13	Finishing-off cut and fill slope, medians and interchange areas			
distance of 1.0km 3.375.00 Overhaul of material hauled in excess of free-haul distance of 1.0km 3.375.00		(a) Cut slopes	m²	2,051.00	
distance of 1.0km m²-km		(b) Fill slopes	m²	255.00	
	33.2		m³-km	3,375.00	
TOTAL SECTION 3300 CARRIED FORWARD TO SUMMARY	TOTAL SE	CTION 3300 CARRIED EODWARD TO SUMMA DV			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL	0.411		741100111
34,01	Pavement layers constructed from gravel taken from cut or borrow, including free haul up to 1,0 km			
	(a) (i) Lower selected gravel layer compacted to 93%	m³	2,025.00	
	of Mod AASHTO density (150mm)		·	
	(ii) I limber collected grovel lover compacted to 05% of	ma3	2.025.00	
	(ii) Upper selected gravel layer compacted to 95% of Mod AASHTO density (150mm)	m³	2,025.00	
	(d) G5 gravel subbase (unstabilised material)	m³	2,025.00	
	compacted to 95% of Mod AASHTO density (150mm)			
	(10011111)			
	(e) G5 gravel base (unstabilised material) compaction	m³	2,025.00	
	to 98% of Mod AASHTO density (150mm)			
	(g) (ii) Gravel shoulders compacted to 95% of Mod	m³	540.00	
	AASHTO density (150mm layers)	""	340.00	
34,02	Extra over item 34.01 for excavation of material in:			
	(b) Hard excavation	m³	756.00	
	. ,			
34.02	Extra over item 34.01 for using added crushed-stone			
	material:			

ITEM 35.00	DESCRIPTION STABILISATION	UNIT	QTY	AMOUNT
35,01	Chemical stabilisation extra over unstabilized			
	(a) Base			
	(1) 150mm thickness	m³	2,025.00	
25.00				
35,02	Chemical stabilizing agent			
	(a) Ordinary portland cement (CEM 11 32.5)	t	139.73	
35,04	Provision and application of water for curing (for the period of curing)	kl	189.00	
35,10	Extra over item 35.01 for chemical stabilisation in restricted areas:			
	(b) In situ mixing	m³	1,500.00	
35,13	Extra over items 35.01 and 35.07 for trial sections	m³	350.00	
35,13	Extra over items 55.01 and 55.07 for that sections	m-	350.00	
	ASPHALT SURFACING			
42.02	Asphalt surfacing (a) Asphalt surfacing material	m²	12,877.00	
	(dens grade, 30mm thick)		12,017.00	
42.04	Tack coat	1:4	0.400.50	
	30% stable grade emulsion @ 0,5l/m²	liter	6,438.50	
TOTAL C	ECTION 3500 CARRIED FORWARD TO SUMMARY			
TOTALS	ECTION 3000 CARRIED FURWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
5200	GABIONS	GINIT	QII	AWOUNT
52,01 LI	Foundation trench excavation and backfilling			
	(a) In solid rock (material which requires blasting)	m³	10.00	Rate only
	(b) In all other classes of material	m³	500.00	Rate only
52,02	Surface preparation for bedding and gabions	m²	800.00	Rate only
52,03	Gabions			
	(a) Galvanised gabion boxes			
	(1) 2x1x1m (Mesh Type 60, with 2,2/3,2mm dia	m³	500.00	Rate only
	(c) Galvanised gabion mattresses-Various sizes			
	(1) 6x2x0.3m (Mesh Type 60, with 2,2/3,2mm dia.	m³	1,200.00	Rate only
52.04	Filter fabrics			
	Bidum U24 or similar approaved	m²	5,000.00	Rate only
TOTAL SE	ECTION 5200 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
5600	ROAD SIGNS	JINII	QIY	AMOUNT
56,01	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 or approved equivalent)			
	i) Area not exceeding 2m²	m²	230.00	
	ii) Area exceeding 2m² but not exceeding 10m²	m²	35.00	
	d) Prepainted galvanized steel profiles (200mm high			
	ii) Area exceeding 2m² but not exceeding 10m²	m²	18.00	
56,02	Extra Over item 56.01 for using			
	(a) Background of retro-reflective material			
	(i) Class I	m²	200.00	
	(b) Lettering Symbols, numbers, arrows, emblems			
	(iii) Class IV (Micro-Prismatic)	m²	36.00	
56.03	Road sign supports			
	(a) Galvanised Steel			
	(i) 75mm D Section 2mm wall thickness	ton	1,000.00	Rate only
	(ii) 100mm D Section 4mm wall thickness	ton	1,000.00	Rate only
	(b) Timber			
	(i) 125mm minimum dia CCA Treated	m		Rate only
	(ii) 150mm minimum dia CCA Treated	m	1,000.00	-
	(iii) 175mm minimum dia CCA Treated	m		Rate only
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m³	70	
56.06	Extra over item 56.05 for cement-treated soil backfill	m³	60	
56.07	Extra over item 56.05 for rock excavation	m³	100	
TOTAL S	ECTION 5600 CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QTY	Г	AMOUNT
5700 LI	ROAD MARKINGS	UNII	QIT		AWOUNT
57,02	Retro-reflective road marking paint				
	(a) White lines (broken or unbroken)				
	(1) 100mm wide	km	3.10		
	(3) 200mm wide	km	0.50		
	(b) Yellow lines (broken or unbroken)				
	(1) 100mm wide	km	2.25		
	(d) White lettering and symbols	m²	60.00		
	(e) Yellow lettering and symbols	m²	20.00		
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m²	10.00		
57.06	Setting out and premarking the lines (Excluding trafficisland markings, lettering and symbols)	km	3.10		
TOTAL S	ECTION 5700 CARRIED FORWARD TO SUMMARY				

L		T		
ITEM 5900	DESCRIPTION FINISHING THE BOAD AND BOAD RESERVE	UNIT	QTY	AMOUNT
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS			
	AND TREATING OLD ROADS			
59,01	Finishing road and road reserve			
00,01	g . cara ana . cara . coco c			
	(b) single carrigeway road	km	1.80	
TOTAL CO	COTION FOOD CARRIED FORWARD TO CLIMATE			
LIUTALSE	CTION 5900 CARRIED FORWARD TO SUMMARY			

ITFM	DESCRIPTION	UNIT	QTY	
TEM 7300	CONCRETE BLOCK PAVING FOR ROADS	5	3,11	
73,01 LI	Concrete block paving	m²	36,600.00	Rate only
73,02 LI	Cast in situ concrete edge beams	m³	305.00	Rate only
TOTAL S	I ECTION 7300 CARRIED FORWARD TO SUMMARY	<u> </u>	<u> </u>	

ITEM 8100	DESCRIPTION TESTING MATERIALS AND WORKMANSHIP	UNIT	QTY		
81,02	Other special tests requested by the engineer	Prov. Sum	1	35,000.00	35,000.00
81,02(a)	Contractor attendance and Profit	sum	35,000.00	10.0%	3,500.00
TOTAL SE	ECTION 8100 CARRIED FORWARD TO SUMMARY	ı	1		

	F PRICING SC		
SECTION	METHOD	DESCRIPTION	AMOUN
		ACUEDIU E A DOADWODYO	
1000		SCHEDULE A: ROADWORKS	
1200		General Requirements and Provisions	
1300	110	Contractor's Establishment on Site and General Obligations	
1400	LIC	Housing , Offices and Laboratories for the Engineer's Site Personnel	
1500	LIC	Accommodation of Traffic	
1700		Clearing and Grubbing	
1800	110	Dayworks	
2100	LIC	Drains Drafth rice and College to	
2200	LIC	Prefabricated Culverts	
2300	LIC	Concrete Kerbing, Channelling, Chutes, Down Pipes and Concrete Lining	
3100		Borrow Materials	
3200		Selection, Stockpiling and Break-down the Material from Borrow Pits, Cuttings nd Existing	
2000		Pavement Layers, and Placing and Compacting the Gravel Layers	
3300		Mass Earthworks	
3400		Pavement Layers of Gravel Material	
3500		Stabilisation	
4200		Asphalt Surfacing	
5200	LIC	Gabions	
5600	LIC	Road Signs	
5700	LIC	Road Markings	
5900		Finishing the Road Reserve and Treating Old Roads	
7300	LIC	Concrete Block Paving for Roads	
8100		Testing Materials and Workmanship	
JBTOTAL 1			
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DD 10% CO	NTICENCY		
10% CO	NIIGENCI		
JBTOTAL 2			
DIOTAL 2			
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