

**CONTRACT NAME.: REHABILITATION OF HLOHLOKWE TO SOFAYA**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1200</b>	<b>GENERAL REQUIREMENTS AND PROVISIONS</b>				
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) Provisional 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 SECTION 1200 CARRIED FORWARD TO SUMMARY					

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ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
<b>1400</b>	<b>HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL</b>				
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	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					

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ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
<b>1800</b>	<b>DAYWORKS</b>				
<b>D18.01</b>	Personnel 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		
<b>D18.02</b>	Personnel outside normal working hours				
	(a) Outside normal working hours and Saturdays				
	(i) Unskilled labour	h	100		
	(b) Sundays and public holidays				
	(i) Unskilled labour	h	25		
<b>1731</b>	<b>D18.03</b>	<b>Plant</b>			
	(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 Tipbers	h	25.0		
	(i) 10 m3 Tipbers	h	25.0		
	(k) Compaction Rollers:				
	(i) Vibrator roller	h	25.0		
	(ii) Tampina roller	h	25.0		
	(iii) Grid roller	h	25.0		
TOTAL SECTION 1800 CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
<b>21.00</b>	<b>DRAINS</b>				
21.01 LI	Excavation for open drains				
	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 excavation in				
21.04 LI	Impermeable 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 SECTION 2100 CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
22,00	PREFABRICATED CULVERTS				
	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		
	(b) Using imported selected material	m³	300.00		
	(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
	900 mm 100D	m	28.00		
22,05	Portal and rectangular 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 LI	Manholes, catchpits, precast inlet and outlet				
	(c) Cast-in-situ inlet and outlet structures including :				
TOTAL	CARRIED FORWARD				

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ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS			
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-channelling 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 LI	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	
TOTAL SECTION 2300 CARRIED FORWARD TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
BROUGHT FORWARD				
33.00	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 CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
BROUGHT FORWARD				
33.1	Roadbed preparation and compaction of material			
	(a) Compaction to 90% of modified AASHTO density	m³	5,000.00	Rate only
	(b) Compaction to 93% of modified AASHTO density	m³	1,755.00	
33.12	In situ treatment of roadbed			
	(a) In situ treatment by ripping	m³	1,575.00	
	(b) In situ treatment by blasting	m³	233.00	
33.13	Finishing-off cut and fill slope, medians and interchange areas			
	(a) Cut slopes	m²	2,051.00	
	(b) Fill slopes	m²	255.00	
33.2	Overhaul of material hauled in excess of free-haul distance of 1.0km	m³-km	3,375.00	
TOTAL SECTION 3300 CARRIED FORWARD TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
5200	GABIONS				
52,01	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 approved	m²	5,000.00		Rate only
TOTAL SECTION 5200 CARRIED FORWARD TO SUMMARY					

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ITEM	DESCRIPTION	UNIT	QTY
7300	CONCRETE BLOCK PAVING FOR ROADS		
73.01 LI	Concrete block paving	m²	36,600.00
73.02 LI	Cast in situ concrete edge beams	m³	305.00
TOTAL SECTION 7300 CARRIED FORWARD TO SUMMARY			

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**CONTRACT NAME.: REHABILITATION OF HLOHLOKWE TO SOFAYA****SUMMARY OF PRICING SCHEDULE**

SECTION	METHOD	DESCRIPTION	AMOUNT
		<b>SCHEDULE A: ROADWORKS</b>	
1200		General Requirements and Provisions	
1300		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		Dayworks	
2100	LIC	Drains	
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 and Existing 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	
<b>SUBTOTAL 1</b>			
<b>ADD 10% CONTIGENCY</b>			
<b>SUBTOTAL 2</b>			
<b>VAT @ 15%</b>			
<b>TOTAL</b>			