



SUMMARY OF BILL OF QUANTITIES
ELIAS MOTSWALEDI LOCAL MUNICIPALITY
CONTRACT NO: EMLM 30/2021
CONSTRUCTION OF DIPAKAPAKENG ROAD



TENDER BOQ

SCHEDULE A : ROADWORKS		AMOUNT	
1200	General requirements and provisions	R	-
1300	Contractor's establishment on site and general obligation	R	-
1400	Housing, Office and laboratory for the engineer's site personnel	R	-
1500	Accommodation of traffic	R	-
1700	Clearing and Grabbing	R	-
1800	Dayworks	R	-
2100	Drains	R	-
2200	Prefabricated Culverts	R	-
2300	Concrete Kerbing, Concrete Channeling, Chutes and Down Pipes, and Concrete Linings for Open Drains	R	-
3300	Mass Earthworks	R	-
3400	Pavement Layers of gravel material	R	-
3500	Stabilization	R	-
3600	Crushed stone base	R	-
3800	Breaking Up Existing Pavement	R	-
4100	Prime coat	R	-
4200	Asphalt surfacing and base	R	-
5200	Gabion	R	-
5600	Road signs	R	-
5700	Road Markings	R	-
5900	Finishing the road and road reserve and treating old roads	R	-
7300	Concrete block paving for roads	R	-
8100	Testing materials and workmanship	R	-
TOTAL CONSTRUCTION		R	-
5% CONTIGENCIES		R	-
SUB-TOTAL A		R	-
SUB-TOTAL B		R	-
15% VAT		R	-
TENDER AMOUNT (CARRIED TO FORM OF OFFER)		R	-

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1200	<u>GENERAL REQUIREMENTS AND PROVISION</u>				
12/C12.01	Project liaison				
	(a) Project Liaison officer	Prov Sum	1,0	36 000,00	36 000,00
	(c) Contractor's charges to allow for handling cost and profit in respect of 12/C12.01(a) and (b)	%	36 000,0		
12/D07.01	Training				
	(a) Civil engineering technician/engineer trainee	Prov Sum	1	24 000,00	24 000,00
	(b) Technical skills	Prov Sum	1,0	55 000,00	55 000,00
	(c) Management of Local Contractors	Month	6,0		
	(d) Training venue	Prov Sum	1,0	5 000,00	5 000,00
	(e) Remuneration of workers undergoing technical skills training	Prov Sum	1	5 000,00	5 000,00
	(f) Contractor's handling costs, profit and all other charges in respect of Sub items D 07.01(a) and (b)	%	84 000,0		
12/E9.01	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations and DMA act 2002	L Sum	1,0		
12/E9.02	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month	6,0		
12/E9.03	Submission of the Health and Safety File	L Sum	1,0		
12/E9.04	Contractor's time related obligations in respect of the Occupational Health and Safety Act Construction Regulations (2014) and Disaster Management Act of 2002 as amended for administrative Controls for SARS (COVID 19) Virus	Month	6,0		
12/H11.04	Contractor's time related obligations in respect of Environmental management plans and specifications	Month	6,0		
B12.01	Construction Nameboard	No	2,0		
B12.02	Provision for compensation to land owners				
	(a) Provisional sum for royalties of borrow pit material	Prov Sum	1,0	60 000,00	60 000,00
	(b) Handling cost and profit in respect of subitem B12.02 (a)	%	60 000,0		
B12.03	Services:				
	(a) Searching, locating and relocation of existing services and installation of street lighting after completion (Telkom, existing street lightings, water services, etc)	PC Sum	1,0	150 000,00	150 000,00
1200	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1300	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
13,01	The Contractor's general obligations:				
	(a) Fixed obligations	L/Sum	1,0		
	(b) Value-related obligations	L/Sum	1,0		
	(c) Time-related obligations	Month	6,0		
	NB: The combined total ESTIMATED amount for sub items (a), (b) and c, should NOT exceed 15% of ESTIMATED amount				
1300	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1400	<u>HOUSIN, OFFICE AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL</u>				
14,01	Offices and laboratory accommodation				
	(a) Offices (interior floor space only)				
	(i) Type 1 (6m x 3,5,)	m²	21		
	(ii) Type 2 (4m x 3,5)	m²	14,0		
14,02	Offices and laboratory furniture				
	(a) Chairs	No	18,0		
	(d) Desks, complete with drawers and locks	No	4,0		
	(f) Conference tables	No	1,0		
B14.03	Offices and laboratory fittings Installations and equipment.				
	(a) Items measured by number				
	(i) 220/250 volt power points	No	12		
	(iii) Double 80 watt flourescent light fittings complete with ballast and tubes	No	4		
	(v) Single incandescent light fittings complete with 100 wa	No	4		
	(vi) Hand wash basins complete with taps and drains globes	No	2		
	(iv) Double 55 watt fluorescent light fittings complete with ballast and tubes	No	3		
	(x) Fire extinguishers, 9,0 kg, all purpose dry powder type complete, mounted on wall with brackets	No	2		
	(xiv) General-purpose steel cupboards with shelves	No	2		
	(xv) Steel filing cabinets drawers	No	1		
	(xix) Steel plan cabinets	No	1		
1400	TOTAL CARRIED FOWARD				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	(b) Prime-cost items and items paid for in a lump sum:				
	(ix) Cell phones costs, including pro-rata rentals, for calls in connection with contract administration	PC Sum	1	25 000,00	25 000,00
	(x) Handling costs and profit in respect of subitem B14.03 (b)(ix)above	%	25 000,0		
	(c) Items measured by area				
	(i) Shelving as specified, complete with brackets	m ²	6		
14,04	Car ports				
	(a) Car ports, as specified,at offices and laboratory buildings	No	2		
14,08	Services				
	(a) Services at office and laboratories				
	(i) Fixed costs	L/sum	1		
	(ii) Running costs	month	6		
14,10	Provision of photostat facilities	month	6		
1400	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500	<u>ACCOMMODATION OF TRAFFIC</u>				
B15.01	Accommodating traffic and maintaining temporary deviations	km	5,0		
15,03	Temporary traffic-control facilities				
	(a) Flagmen	man-days	1 344,0		
	(b) Portable STOP and GO-RY signs	no	7,0		
	(e) Road signs, R- and TR-series, (1200mm diameter)	No	16,0		
	(f) Road signs, TW-series, (1500mm)	No	16,0		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series excluding delineators and barricades)	No	30,0		
	(h) Delineators (DTG50(j) (200mm x 800mm)				
	(1) Single	No	600,0		
	(2) Mounted back to back	No	200,0		
	(i) Moveable barricade/road sign combination (1970mm x 3000mm)	No	7,0		
	(j) Traffic cones (750mm)	No	100,0		
15,04	Relocation of traffic-control facilities	No	6,0		
15,06	Watering of temporary deviations	kl	100,0		
B15.15	Provision of safety equipment to be used by the Engineer				
	(a) Safety Jackets	No	4,0		
1500	TOTAL CARRIED FORWARD				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
B15.17	Penalty to be deducted for non-compliance with requirements for accomodation of traffic				
	(a) Fixed penalty per occurance	Nº		-2 000,00	
	(b) Time-related penalty	hr		-1 000,00	
15/16.02	Overhaul on material hauled in excess of 1,0km	m³-km	11 500,0		
1500	TOTAL CARRIED FORWARD TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1700	<u>CLEARING AND GRUBBING</u>				
17,01	Clearing and grubbing	ha	0,3		
17,02	Removal and grubbing of large trees and stumps				
	(a) Girth exceeding 1 m up to and including 2 m	No	12,0		
	(b) Girth exceeding 2 m up to and including 3 m	No			
17,04	Clearing and grubbing at inlets and outlets of hydraulic structures	m ²	35,0		
17,05	Clearing out of hydraulic structures:				
	(a) Pipes with an internal diameter up to and including 750 mm	m ³	50,0		
	(b) Pipes with an internal diameter exceeding 750 mm	m ³			Rate Only
	(c) Box culverts up to and including 1,5 m vertical dimension	m ³			Rate Only
	(d) Box culverts exceeding 1,5 m vertical dimension	m ³			Rate Only
1700	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B1800	DAYWORKS				
B18.01	Personnel during normal working hours				
	(a) Unskilled labour	hour	32,00		
	(b) Semi-skilled labour	hour	32,00		
	(c) Skilled Labour	hour	32,00		
	(d) Foreman - Section Leader	hour	32,00		
	(e) Flagman	hour	32,00		
	(f) Operator	hour	32,00		
B18.02	Personnel outside normal working hours				
	(a) Outside normal working hours and Saturdays:				
	(i) Unskilled labour	hour			Rate Only
	(ii) Semi-skilled labour	hour			Rate Only
	(iii) Skilled Labour	hour			Rate Only
	(iv) Foreman - Section Leader	hour			Rate Only
	(v) Flagman	hour			Rate Only
	(vi) Operator	hour			Rate Only
	(b) Sunday and Public holidays:				
	(i) Unskilled labour	hour			Rate Only
	(ii) Semi-skilled labour	hour			Rate Only
	(iii) Skilled Labour	hour			Rate Only
	(iv) Foreman - Section Leader	hour			Rate Only
	(v) Flagman	hour			Rate Only
	(vi) Operator	hour			Rate Only
TOTAL CARRIED FORWARD					

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD					
B18.03	Plant:				
	(a) Tipper Trucks				
	(i) 6m3 capacity	hour			Rate Only
	(ii) 10m3 capacity	hour			Rate Only
	(c) TLB	hour			Rate Only
	(e) Pneumatic Roller (10 to 25 tons)	hour			Rate Only
	(g) Air Compressors and equipment	hour			Rate Only
	(k) Pedestrian roller (bomag 120 or similar)	hour			Rate Only
B18.04	Materials:				
	(a) Procurement of materials	PC Sum	1,00	25 000,00	25 000,00
	(b) Contractor's handling costs, profit and all other costs in respect of subitem B18.04 (a)	%	25 000		
B18.05	Transport:				
	(a) LDV	km			Rate Only
	(b) Flatbed truck	km			Rate Only
	(c) Semi-trailer and truck	km			Rate Only
B18.06	Relocation of Services:				
	(a) Relocation of Existing Services Boundary Fences, Eskom Poles and line Telkom, existing street lightings, water services, etc	PC Sum	1,00	150 000,00	150 000,00
TOTAL CARRIED SUMMARY					

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2100	<u>DRAINS</u>				
21,01	Excavation for open drains				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1.5m	m ³	1 208		
	(ii) exceeding 1.5m to 3.0m	m ³	20		
	(b) Extra over subitem 21.01 (a) for excavation in hard material, irrespective of depth	m ³			Rate Only
21,03	Excavation for subsoil drains systems				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1.5m	m ³			Rate Only
	(ii) Excveding 1.5m and up to 3.0m	m ³			Rate Only
	(b) Extra over subitem 21.03 (a) for excavation in hard material, irrespective of depth	m ³			Rate Only
21,04	lpermeable backfilling to subsoil drainage system	m ³			Rate Only
21,04	Banks and dykes	m ³			Rate Only
21,06	Natural permeable material in subsoil drainage system (crhushed stone)				
	(b) Chrushed stone obtained from commercial sources (19,0mm aggregates)	m ³			Rate Only
21,06	Natural permeable material in subsoil drainage system (stand)				
	(b) Sand obtained from commercial sources	m ³			Rate Only
21,08	Pipes in subsoil drainage systems				
	(b) Unplasticized PVC pipes and fittings, normal duty, complete with couplings				
	(i) 150mm internal dia Perforated slotted	m	100		
2100	TOTAL CARRIED FORWARD				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
21,12	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems as in drawing No. AC.....				
	(b) Manhole boxes	No			Rate Only
	(c) Junction boxes	No			Rate Only
21,13	Concrete caps for subsoil drain pipes	No			Rate Only
21,15	Overhaul for material hauled in excess of 1,0km free hauled (normal overhaul)	m ³ - km	4 830		
21,17	Test flushing of pipe subsoil drains	No			Rate Only
2100	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2200	<u>PREFABRICATED CULVERTS</u>				
22,01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1.5m	m³	400		
	(ii) exceeding 1.5m to 3.0m	m³	10		
	(b) Extra over subitem 21.01 (a) for excavation in hard material, irrespective of depth	m³	5		
22,02	Backfilling				
	(a) Using excavated material	m³	400		
	(b) Using Imported material	m³	50		
	(c) Extra over subitem 22.0(a) and 22.02(b) for soil cement backfilling				
	(i) with 2% stabilization (soil screte) cem II 32.5N	m³	3		
22,03	Concrete culvert pipes				
	(b) On class "B" bedding,				
	(i) OG Class 75D - SABS 677 Type SC				
	(1) 450mm dia.	m			Rate Only
	(2) 600mm dia.	m	150		
	(3) 750mm dia.	m	50		
	(i) OG Class 100D - SABS 677 Type SC				
	(1) 450mm dia.	m			Rate Only
22.05	Portal culverts and Rectangular culverts				
	a) Complete with prefabricated floor				
	(i) 1200mm by 1500mm	m	6		
22.07	Cast in situ concrete and formwork				
	b) in floor slabs for portal or rectangular culverts,including formwork joints and class u2 finish(25MPA)	m³	20		
2200	TOTAL CARRIED TO FOWARD				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
B22,12	Removing of existing concrete/ stone pitching.				
	(a) Plain concrete	m ³	3 000		
	(b) reinforced concrete	m ³	2		
B22.13	Removing and re-laying of concrete pipes				
	(a) All types and size	m			Rate Only
22,17	Manholes, catchpits, precast inlet and outlet structures complete				
	(a) Manholes				
	(1) Brick manholes for drainage: constructed on all pipes up to 750 mm diameter complete with covers				
	(i) Up to 1.0m deep	no			Rate Only
	(ii) 1.0m up to 1.5m deep	no	4		
	(iii) 1.5m up to 2.5m	no			Rate Only
	(b) Catchpits constructed to complete	no	4		
22,18	Brick work				
	a) 230mm brickwork	m ²	100		
	b) 345mm brick work	m ²	100		
22,27	Reinstating trenches crossing road:				
	(a) Selected layers	m ³			Rate Only
	(b) Subbase	m ³			Rate Only
	(c) Base	m ³			Rate Only
	(d) Asphalt surfacing (including tack coat)	m ²			Rate Only
	(e) kerbs (all types)	m			Rate Only
22/16.01	Overhaul material hauled in an excess of free haul distance of 1,0km (restricted haul overhaul)	m ³	400		
22/16.02	Overhaul on material hauled in an excess of 1,0km (ordinary overhaul)	m ³ - km	200		
22.26	Hand Excavation to determine positions of services	m ³	100		
2200	TOTAL CARRIED SUMMARY				

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23,00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23,02	Concrete kerbing-channeling combination				
	(a) Precast kerb to SABS 927 and cast in situ channel (100mm x 100mm concrete class 20/19)				
	(1) Figure 8C kerb				
	(i) Radius 1m to 20m	m	50,00		
	(iii) Straight and to radius not less than 20m	m	5 000,00		
	(b) Fig 12	m	10,00		
	(c) Fig 3	m³	10,00		
23,08	Concrete lining for open drains				
	(a) Cast insitu concrete lining class 30/19 cast in 2.0m alternate sections				
	(1) standard side drain				
	(i) type v1 - v4	m³	805,00		
23,09	Formwork to cast insitu concrete lining for open drains (class F2 surface finish)				
	(a) To sides with formwork on the internal face only	m²	750,00		
	(b) To sides with formwork on both internal and external faces (each face measured)	m²	750,00		
23.10	Sealed joints in concrete linings of open drains				
	(a) Polysulphide sealants	m	200,00		
23.12	Steel Reinforcement				
	(c) Welded steel fabric	kg	3 179,75		
23.14	Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling or concrete-lined drains	m	10,00		
23/73.02	Cast in situ concrete edge and intermediate beams (concrete class 30/19)	m³	75,00		
B23.16	Removal of kerbs to spoil including haulage	m	5,0		
TOTAL CARRIED SUMMARY					

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
33,00	MASS EARTHWORKS				
B33.01	Cut and borrow to fill, including free-haul up to 10km				
	(a) Gravel material in compacted layer thickness of 200mm and less	m ³	2 342,0		
	(i) Compacted to 90% MOD. AASHTO	m ³			Rate Only
	(g) Supply and compact dump rock (3 passes)	m ³	50,0		
	(h) Fill from commercial sources	m ³			Rate Only
33,04	Cut to spoil, including free-haul up to 0.5 km. Material obtained from:				
	(a) Soft Excavation	m ³	4 908,3		
	(b) Intermediate Excavation	m ³	1 402,4		
	(c) Hard Excavation	m ³	1 402,4		
	(d) Boulder Excavation (class A)	m ³	50,0		
	(e) Boulder Excavation (class B)	m ³			Rate Only
33,09	Material bladed to windrow	m ³	30,0		
33,10	Roadbed preparation and the compaction of material				
	(a) Compacted to 93% modified AASHTO density	m ³	2 753,0		
33,11	Three-roller-passes compaction				
	(a) Vibratory roller	m ²	1 488,0		
	(b) Grid roller	m ²	100,0		
	(f) Pneumatic-tyred roller	m ²	100,0		
33,14	Extra over item 33.01 for excavating material from the pavements and fills of existing roads				
	(a) Non cemented material	m ³			Rate Only
	(b) cemented material	m ³			Rate Only
33,12	In situ treatment of roadbed				
	(a) In situ treatment by ripping	m ³	1 376,5		
33/16.02	Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m ³ -km	79 971,8		
33/32.06	Stockpiling of material	m ³	2 500,0		
B33.15	Supply and install Geotextile membrane Grade A5	m ²	400,0		
CARRIED SUMMARY					

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
34.00	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) 95% of modified AASHTO density (150mm compacted layer thickness)	m³	1 200,0		
	(f) Gravel subbase (chemically stabilized material) compacted to				
	(i) 97% of modified AASHTO density (150mm compacted layer thickness)	m³	1 200,0		
	(g) Gravel shoulder/sidewalks compacted to:				
	(i) 93% MOD. AASHTO density	m³	600,0		
34,02	Extra over item 34.01 for excavation of material in:				
	(a) Intermediate excavation	m³	50,0		
	(b) Hard Excavation	m³	50,0		
B34,14	Pavement layers constructed from gravel obtained from commercial sources:				
	(b) Gravel selected layer G5 material quality compacted to:				
	(i) 93% of modified AASHTO density (150mm compacted layer thickness)	m³	3 014,3		
	(b) Gravel selected layer G5 material quality compacted to:				
	(i) 93% of modified AASHTO density (150mm compacted layer thickness)	m³	3 014,3		
	(d) Gravel subbase G5 material quality (chemically stabilized material to C3 quality) compacted to:				
	(i)95% of modified AASHTO density (150mm compacted layer thickness)	m³	3 014,3		
34/16.02	Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m³-km	19 200,0		
3400	TOTAL CARRIED SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B35.00	STABILIZATION				
35,01	Chemical stabilization extra over unstabilized 150mm thickness subbase	m³	6 028,5		
35,02	Chemical stabilization agent: (a) Ordinary portland cement (c) Road lime	t t	277,3		Rate Only
35,04	Provision and application of water for curing	kl	200,0		
TOTAL CARRIED SUMMARY					

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B36.00	CRUSHED STONE BASE				
36,01	Crushed-stone base (a) Constructed from type G1 material obtained from commercial sources and compacted to 88% of apparent relative density (150mm layer thickness) (1) 37mm nominal maximum size stone	m ³	400,0		
3600	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3800	<u>BREAKING UP EXISTING PAVEMENT LAYERS</u>				
38.01	Excavating and removing existing bituminous				
(a)	Not exceeding 30 mm	m ²	200		
(b)	Exceeding 30 mm but not exceeding 60mm	m ²	200		
38.04	Excavating and spoiling material from an existing pavement and/or the underlying				
(a)	Non-cemented material	m ³	500		
(c)	Cemented crush stone	m ³	100		
(d)	Cemented material	m ³	100		
38.08	Sawing or cutting asphalt or cemented pavement				
(b)	Cutting asphalt	m	200		
(b)	Sawing Cemented layers	m	200		
(i)	Cemented crushed stone (150mm thick)	m	200		
B38.16	Sealing of Construction joint of new and existing				
(b)	Geofabric painted with bituminous material (with of	m	600		
3800	TOTAL CARRIED TO SUMMARY				

ELIAS MOTSWALEDI LOCAL MUNICIPALITY

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CONSTRUCTION OF DIPAKAPAKENG ROAD

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
41.01	<u>PRIME COAT</u> Prime coat: Prime coat rate at 0.7l/m ² (b) Quick drying RTH1/4P tar prime complying with SABS 748	lt	3 250,0		
41.02	Aggregate for blinding	m ²			Rate Only
41.03	Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre			Rate Only
4100	TOTAL CARRIED TO SUMMARY				

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 CONSTRUCTION OF DIPAKAPAKENG ROAD

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ASPHALT BASE AND SURFACING</u>				
42,02	Asphalt surfacing (60/70 pen bitumen)				
	(a) Continuously graded				
	(2) Medium graded				
	(iii) 30 mm thick	m ²	17 600		
	(iii) 40 mm thick	m ²	3 544		
42,04	Tack coat of 30% stable-grade emulsion	l	21 144		
42,08	100mm cores in asphalt	No	30		
42,13	Placing and compacting Asphalt in restricted areas				
	(a) Extra over item 42.02	m ²	200		
42,14	Extra over item 42.04 for applying tack coat in restricted areas	l	200		
B42,14	Construct speedhump complete as per drawing RCE 73-EMLM -SHSD-01	No	8,00		
4200	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5 200,00	GABIONS				
52.01	Foubdation Trench excvation and backfilling				
(b)	In all other classes of material	m³	200,00		
52.02	Surface preparation for bedding the gabions	m²	400,00		
52.03	Gabions				
(a)	Galvinilised gabion boxes				
(i)	2,0 x 1,0 x 1,0m Box of 80mm mesh size	m³	50,00		
(ii)	1,5 x 1,0 x 1,0m Box of 80mm mesh size	m³	50,00		
(iii)	2.0 x 1,0 x 0.5m Box of 80mm mesh size	m³	50,00		
c)	Galvanized gabion mattresses				
(i)	2,0 x 1,0 x 0,3m Mattress of 60mm mesh	m³	70,00		
(ii)	6,0 x 2,0 x 0,3m Mattress of 60mm mesh	m³	70,00		
52.02	Filter Fabic (grade 3 filter fabric, penetration load 1500N) Puncture resistance (maximum) 32 mm	m²	800,00		
5200	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
56,00	ROAD SIGNS				
56,01	Road signs boards with painted or colouted semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-effective material, where the sign board is constructed. (c) Prepainted galvanized steel plate (chromadek 1,6 mm thick or approved equivalent): (i) Area not exceeding 2m ² (ii) Area exceeding 2m ² but not 10m ² (iii) Area exceeding 10m ²	m ² m ² m ²	200,00 100,00		Rate Only
56,02	Extra over item 56.01 for using: (b) Lettering, symbols, number, arrows, emblems and borders or retro-reflective material of Class 1 Engineering grade	m ²	70,00		
56,03	Road sign supports (overhead road sign structures excluded): (a) Steel tubing, fully galvanised (i) 50mm dia. D-Section 1,6mm thick (iii) 76mm dia. D-Section 2m thick (iii) 100mm dia. D-Section 4mm thick	t t t	3,00 1,20 0,40		
56,05	Excavation and backfilling for road sing supports	m ³	30,00		
56,06	Extra over item 56.05 for cement-treated soil backfill	m ³	10,00		
56,08	Dismantling, storing and re-erecting road signs with a surface area of: (a) Up to 2 m ²	No	4,00		
56,09	Dismantling and storing road signs with a surface area of: (a) Up to 2 m ²	No	8,00		
5600	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
57.02	<u>ROAD MARKINGS</u> Retro-reflective road-marking paint: (a) White lines (broken or unbroken): (i) 100 mm wide (b) Yellow lines (broken or unbroken): (i) 100 mm wide (c) White lettering and symbols (d) Yellow lettering and symbols (e) Transverse lines, painted island and arrestor bed markings (any colour)	km	5,0		
		km	10,0		
		m²	300,0		
		m²	400,0		
		m²			Rate Only
57.04	Variations in rate of application:				
	(a) White paint	litre	40,0		
	(b) Yellow paint	litre	40,0		Rate Only
57.06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	5,0		
57.07	Re-establishing the painting unit at the end of the maintenance period	L/Sum	1,0		
5700	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59.01	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
	Finishing the road and road reserve: (a) Single-carriageway road	km	5,0		
5900	TOTAL CARRIED TO SUMMARY				

ELIAS MOTSWALEDI LOCAL MUNICIPALITY
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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7300	<u>CONCRETE BLOCK PAVING FOR ROADS</u>				
73,01	a) 80mm interlocking paving blocks (25Mpa) SABS approved on a 20mm bedding sand	m²	100,00		
	b) 60mm interlocking paving blocks (25Mpa) SABS approved on a 20mm bedding sand	m²	20,00		
73,03	Provision of approved herbicide and ant poison:				
	(a) Provision of materials	PC Sum	1,00	20 000,00	20 000,00
	(b) Contractor's charges and profit added to the prime cost sum	%	20 000,00		
B73,04	Removal of 80mm interlocking paving blocks and including stacking at designated area by Engineer including free haul of 1km	m²	10,00		
B73.05	Reinstatement of existing paving	m²	10,00		
B73.06	Haulage of paving	tonkm	20,00		
B73.07	Polythene sheeting, 0.15mm thick, DPC 250 micron or similar approved material, for lining below paving	m²	120		
7300	TOTAL CARRIED TO SUMMARY				

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ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>TESTING MATERIALS AND WORKMANSHIP</u>				
B81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	PC Sum	1,00	100 000,00	100 000,00
	(b) Charge on Prime Cost Sum	%	100 000		
81.03	Providing testing equipment:				
	(a) Rolling straight-edge	Nº			Rate Only
	(b) Core drill	Nº			Rate Only
8100	TOTAL CARRIED TO SUMMARY				