



CONSTRUCTION OF MOLOTO SOUTH BUS ROUTE

(BILL OF QUANTITIE)



SCHEDULE A : GENERAL

SECTION 1200

GENERAL REQUIREMENTS AND PROVISIONS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
1200	GENERAL REQUIREMENTS AND PROVISIONS				
B12.01	Existing Services (a) Searching, locating and relocation of (a) existing services (on the written instructions of the Engineer only)	PC sum	1	100,000.00	100,000.00
B12.02	Community Liaison Officer (a) Community Liaison Officer at R11500/m including R500 airtime. (b) Handling costs and profit in respect of sub-item C12.01(a)	month %	6 72,000.00	12,000.00	72,000.00
B12.03	Community Student (a) Community Civil or Structural Engineering Student at R12000/m including R500 airtime, (b) Handling costs and profit in respect of sub-item C12.01(a)	month %	6 75,000.00	12,500.00	75,000.00
B12.4	Occupational Health and Safety (a) Compliance with Occupational Health and Safety Act (Act 85 of 1993) and its regulations and with the Employers Health and Safety Specification (b) Compliance with Occupational Health and Safety Act (Act 85 of 1993) and its regulations and with the Employers Health and Safety Specification	Sum Month	1 6		
B12.11	Environmental Management (a) Compliance with Environmental Management Plan (b) Compliance with Environmental Management Plan	Sum Month	1 6		
B12.12	Dayworks Material (a) Materials used in the execution of dayworks (b) Overheads, charges and profit on the above (Only to be undertaken on the instruction of the Engineer	Prov Sum %	1 50,000.00	50,000.00	50,000.00
B12.13	(c) Handling costs and profit in respect of B12.12 Provision for Accredited Training (a) Provisional Sum for Accredited Training (c) Handling costs and profit in respect of sub-items (a) and (b) above	Prov Sum %	1 200,000.00	200,000.00	200,000.00
12.14	(a) Provisional sum for the Payment of PSC Member at R200/Sitting (b) Handling costs and profit in in respect of 12.14 (a)	Prov Sum %	1.00 22,000.00	22,000.00	22,000.00
1200	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE A : GENERAL

SECTION 1300

CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	The contractor's general obligations:				
	(a) Fixed obligations	L/Sum	1		
	(a) Value-related obligations	L/Sum	1		
	(b) Time-related obligations	Month	6		
	NOTE: The combined total tendered for subitems (a), (b) and (c) should not exceed 15% of the Tender Sum (excluding CPA contingencies and VAT)				
1300	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE A : GENERAL

SECTION 1400:

HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
B14.01	Offices and Laboulatries (a) Furnished Offices with Air conditioning, Steel Cupboard, Fridgerator, (e) Ablution and Latrine facilities	No Month	1 6		
B14.02	Prime-cost items and items paid for in a lump sum: (a) The provision of cell phone telephones (b) Cost of calls and other charges (c) Provision of notebooks for the resident engineer (d) Provision of Printer (e) Handling costs and profit in respect of subitem 14.03(a), (b) and (c) above	Prov.Sum Prov.Sum PC sum PC sum %	1 1 1 1 77,000.00	R30,000.00 R12,000.00 R30,000.00 R 5,000.00 	R 30,000.00 R 12,000.00 R 30,000.00 R 5,000.00
14.03	Car ports: Car ports, as specified, at offices and laboratory buildings	No.	6		
14.04	Services: (a) Services at offices and laboratories: (i) Fixed costs (ii) Running costs	Month L. Sum	6 1		
14.05	Provision of photostat facilities	Month	6		
14.06	Provision of Contract Sign board	No	2		
B14.07	Rented, hotel and other accommodation (a) Provisional sum for providing rented housing, hotel or other accommodation (b) Handling costs and profit in respect of subitem B14.07(a), (b) and (c) above	Prov.Sum %	1 50000	R50,000.00	R 50,000.00
1400	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B: ROADWORKS
SECTION 1500
ACCOMMODATION
OF TRAFFIC

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
1500	ACCOMMODATION OF TRAFFIC				
15.01	Accommodating traffic and maintaining deviations	km	1.10		
1500	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
SECTION 1700
CLEARING AND GRUBBING

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
1700	CLEARING AND GRUBBING				
17.01	Clearing and Grubbing	ha	1.45		
	Removal of Trees	No	0.0		
	Relocation of existing fence	km	0.3		
1700	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
DRAINS
SECTION 2100

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
2100	DRAINS				
22.03	Excavation:				
	(a) Excavation for subsoil drainage systems				
	(i) 0m up to 1,5m	m ³	250		
	(b) Extra over subitem 22,01(a) for excavation in hard material, irrespective of depth	m ³	100		
22.04	Impermeable backfilling to subsoil drainage systems		440		
22.06	Natural permeable material in subsoil drainage systems	m ³	103		
22.08	PIpes in subsoil drainage systems:	m	100		
22.09	A4 Geosynthetic Material	m ²	360		
2100	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
 PREFABRICATED CULVERTS
 SECTION 2200

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
2200	PREFABRICATED CULVERTS				
22.01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1,5m	m ³	500		
	(ii) 1,5m up to 3,0m	m ³	20		
	(b) Extra over subitem 22,01(a) for excavation in hard material, irrespective of depth	m ³	180		
22.02	Backfilling				
	(a) Using excavated material	m ³	180		
	(b) Using imported selected material	m ³	20		
	(c) Extra over subitems 22.02 (a) and (b) for soil cement backfilling (5 % OPC)	m ³	20		
22.03	Concrete pipe culverts:				
	(a) On class B bedding				
	(i) Type SC 100D-load pipes with ogee joints:				
	(1) 600 mm diameter, class 100 D	m	20		
	(2) 750 mm diameter, class 100 D	m	30		
22.05	Portal and rectangular culverts				
	(a) Without floor slabs				
	(i) 1200x1200mm class 100S	m	10		
	(i) 1500x1200mm class 100S	m	10		
22.12	Removing existing concrete				
	(a) Plain concrete	m ³	10		
	(b) Reinforced concrete	m ³	12		
22.17	Manholes, catchpits, Precast inlet and Outlet Structures complete:				
	(a) Wing walls (as per dr.) (LI)	no	4		
	(b) Junction box/Manhole (as per dr.) (LI)	no	12		
	(c) Precast inlet and outlet structures (as per dr.) (LI)	no	12		
21.18	Construction of concrete 1m wide channel	m ³	490		
	Mesh Ref 395	m ²	700		
2200	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS

SECTION 2300

CONCRETE KERBING, CONCRETE CHANNELING, OPEN CHUTES AND CONCRETE LININGS FOR OPEN DRAINS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
2300	CONCRETE KERBING, CONCRETE CHANNELING, OPEN CHUTES AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing:				
	(a) Mountable kerb (fig.8c SABS)	m	1800.00		
	(b) Semi mountable kerb (fig. 7 SABS)	m	262.00		
	(b) Concrete edge berm - cast in-situ	m	80.00		
	(d) Transition kerb - cast in-situ	m	30.00		
B23.02	PREFERENTIAL LOCAL SUBCONTRACTING				
	(a) Allow a Provisional Amount on above Items 23.01 a to d for preferential Procurement for Subcontracting to Local SMME's	Prov Sum			380,000.00
	(b) Handling Costs and Profit in respect of Sub-item B23.02 (a)	%	380000.00		
2300	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS

SECTION 3500

STABILIZATION

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
3500	STABILIZATION				
35.01	Chemical stabilization extra over unstabilized compacted layers: Subbase material	m ³	1544		
35.02	Chemical stabilizing agent: (a) Ordinary portland cement	t	84.0		
35.04	Provision and application of water for Curing	kl	600		
3500	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
SECTION 5100
STONE PITCHING

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5100LI	PITCHING, STONework AND PROTECTION AGAINST EROSION				
51.01	Stone Pitching				
	(b) Grouted Stone Pitching	m2	200		
5100	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
SECTION 5200
GABIONS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5100LI	PITCHING, STONework AND PROTECTION AGAINST EROSION				
52.01	Excavation				
	(b) In all other classes of material	m2	10		
52.02	Surface preparations				
	Bedding for gabions	m3	10		
52.03	Gabions baskets	m3	10		
	Gabions mattress	m3	10		
52.04	Filter fabric	m2	10		
3500	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS

SECTION 5600

ROAD SIGNS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5600	ANCILLARY ROAD WORKS				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class III retro-reflective material, where the sign board is constructed from: (c) Prepainted galvanized steel plate (chromadek or approved equivalent): (i) Area not exceeding 2 m ² (ii) Area exceeding 2 m ² but not 10 m ²	m ² m ²	10.00 10.00		
56.03	Road sign supports (overhead road sign structures excluded):	no	10.00		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	12.00		
56.06	Extra over item 56.05 for cement-treated soil Backfill	m ³	12.00		
56.07	Extra over item 56.05 for rock excavation	m ³	12.00		
56.09	Dismantling and storing road signs with a surface area of: (a) Up to 2 m ² (b) Exceeding 2 m ² but not 10 m ²	no no	5.00 5.00		
5600	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
SECTION 5700
ROAD MARKINGS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
57.00	ROAD MARKINGS				
57.02	Retro-reflective road-marking paint:				
	(a) White lines (broken or unbroken):				
	(i) 100 mm wide	km	0.50		
	(ii) 300 mm wide	km	0.50		
	(d) White lettering and symbols	m ²	55.00		
57.06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	1.10		
	PREFERENTIAL LOCAL SUBCONTRACTING				
B57.07	(a) Allow a Provisional Amount on above Items 23.01 a to d for preferential Procurement for Subcontracting to Local SMME's	Prov Sum			35,000.00
	(b) Handling Costs and Profit in respect of Sub-item B57.07 (a)	%	35000.00		
5700	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS
SECTION 5900
ROAD MARKINGS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01	Finishing the road and road reserve:				
	(a) Dual carriageway road	km	1.0		
	(b) Single carriageway road	km	1.1		
59.02	Treatment of old roads and temporary deviations	km	1.1		
5900	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS

SECTION 7300

PAVING

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
7300	CONCRETE BLOCK PAVING FOR ROADS				
73.01	Concrete Block Paving Provide and Construct interlocking paving lain in herringbone pattern 80 mm thick, 25 Mpa Type S-A concrete paving blocks. price must include , Compaction and finishing (Colour to suit Client)	m ²	5500		
73.02	(a) 25mm River Sand layer	m ³	280		
73.03	Construction of Speed Hump	no	3		
B73.4	PREFERENTIAL LOCAL SUBCONTRACTING (a) Allow a Provisional Amount on above Items 23.01 a to d for preferential Procurement for Subcontracting to Local SMME's (b) Handling Costs and Profit in respect of Sub-item B73.03 (a)	Prov Sum %	 1150000.00		1,150,000.00
7300	TOTAL CARRIED FORWARD TO SUMMARY				



SCHEDULE B : ROADWORKS

SECTION 8100

TESTING MATERIALS AND WORKMANSHIP

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
8100	TESTING MATERIALS AND WORKMANSHIP				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	P. Sum	1	R 250,000.00	R 250,000.00
	(b) Charge on provisional sum for overheads and profits	%	R 250,000.00		
8100	TOTAL CARRIED FORWARD TO SUMMARY				



CONSTRUCTION OF MOLOTO SOUTH BUS ROUTE GENERAL SUMMARY

ITEM	DESCRIPTION	AMOUNT
	<u>SUMMARY OF SCHEDULE A : GENERAL</u>	
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
1400	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL	
	SUB-TOTAL A	
	<u>SUMMARY OF SCHEDULE B : ROADWORKS</u>	
1500	ACCOMMODATION OF TRAFFIC	
1700	CLEARING AND GRUBBING	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING, CONCRETE, CHANNELING, OPEN CHUTES AND CONCRETE LININGS FOR OPEN DRAINES	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5600	ROAD SIGNS	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
7300	CONCRETE BLOCK PAVING	
8100	TESTING MATERIALS AND WORKMANSHIP	
	SUB-TOTAL B	
	TOTAL SUMMARY (SCHEDULE A & B)	
	10% CONTINGENCIES	
	SUB-TOTAL C	
	15% VAT	
	TENDER SUM CARRIED FORWARD TO FORM OF TENDER	



Note: Tender Sum is the value of the offered total of the prices Inclusive of VAT, Contingencies, specials materials and including contractual variations.

SIGNED ON BEHALF OF TENDERER:

DATE: