

FETAKGOMO TUBATSE LOCAL MUNICIPALITY

FOR

CONSTRUCTION OF DRESDEN VILLAGE ACCESS ROAD

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	
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	
3600	CRUSHED-STONE BASE	
4100	PRIME COAT	
4200	ASPHALT BASE AND SURFACING	
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5600	ANCILLARY ROADWORKS	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
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	

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 existing services (on the written instructions of the Engineer only)	PC sum	1	50 000,00	50 000,00
B12.02	Community Liaison Officer (a) Community Liaison Officer at R7500/m including R500 airtime. (b) Handling costs and profit in respect of sub-item C12.01(a)	month %	10	7 500,00	75 000,00
B12.03	Community Student (a) Community Liaison Officer at R7500/m including R500 airtime. (b) Handling costs and profit in respect of sub-item C12.01(a)	month %	10 80 000,00	8 000,00	80 000,00
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 10		
B12.11	Environmental Management (a) Compliance with Environmental Management plan (b) Compliance with Environmental Management plan	Sum Month	1 10		
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	Provision for Accredited Training (a) Generic Skills (b) Entrepreneurial Skills (c) Handling costs and profit in respect of sub-items (a) and (b) above	Prov Sum Prov Sum %	1 1 100 000,00	50 000,00 50 000,00	50 000,00 50 000,00
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)
<p>1300</p> <p>B13.01</p>	<p>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</p> <p>The contractor's general obligations:</p> <p>(a) Fixed obligations</p> <p>(a) Value-related obligations</p> <p>(b) Time-related obligations</p> <p>NOTE: The combined total tendered for subitems (a), (b) and (c) should not exceed 15% of the Tender Sum (excluding CPA contingencies and VAT)</p>	<p>L/Sum</p> <p>L/Sum</p> <p>Month</p>	<p>1</p> <p>10</p>		
<p>1300</p>	<p>TOTAL CARRIED FORWARD TO SUMMARY</p>				<p>0,00</p>

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	No	1		
	(e) Ablution and Latrine facilities	No	1		
B14.02	Prime-cost items and items paid for in a lump sum:				
	(a) The provision of cellphone line including the cost of calls in connection with contract administration and cellphone rental	Month	10	2 500,00	25 000,00
	(b) Provision 2 notebooks or the engineers and RE	PC sum	2	45 000,00	90 000,00
	(c) Handling costs and profit in respect of subsubitem 14.03(a) and (b) above	%	115 000,00		
14.03	Car ports: Car ports, as specified, at offices and laboratory buildings	No.	2		
14.04	Services: (a) Services at offices and laboratories:				
	(i) Fixed costs	Month	10		
	(ii) Running costs	L. Sum	1		
14.05	Provision of photostat facilities	Month	10		
14.06	Porvision of Contract Sign board	No	2		
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				
	(a) On the route	km	3,00		
	(b) On the ramps and cross roads of the interchanges	km	3,00		
B15.10	Accommodation of traffic where the road is constructed in half-widths	km	3		
B15.11	Traffic signals	lump sum	1		
B15.14	Amber flashing lights mounted on signs	no	1		
B15.16	Traffic safety officer	month	10		
15/34.01	Pavement layers constructed from gravel taken from commercial source including free-haul up to 1,0 km: (b) Gravel material compacted to: (ii) 95% of modified AASHTO density for a compacted layer thickness of 150mm	m ³	2500		
1500	TOTAL CARRIED FORWARD TO SUMMARY				0,00

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	1,00		
1700	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	4410		
	(ii) 1,5m up to 3,0m	m ³	2940		
	(b) Extra over subitem 22,01(a) for excavation in hard material, irrespective of depth	m ³	2205		
22.02	Backfilling				
	(a) Using excavated material	m ³	5659,5		
	(b) Using imported selected material	m ³	1697,85		
	(c) Extra over subitems 22.02 (a) and (b) for soil cement backfilling (5 % OPC)	m ³	50		
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	840		
	(2) 750 mm diameter, class 100 D	m	1260,000		
22.05	Portal and rectangular culverts				
	(a) Without floor slabs				
	(i) 1200x900mm class 100S	m	0		
22.12	Removing existing concrete				
	(a) Plain concrete	m ³	100		
	(b) Reinforced concrete	m ³	0		
22.17	Manholes, catchpits, Precast inlet and Outlet Structures complete:				
	(a) Kerb Inlet (as per dr.) (LI)	no	20		
	(b) Junctiox box/Manhole (as per dr.) (LI)	no	24		
	(c) Precast inlet and outlet structures (as per dr.) (LI)	no	3		
B22,17	Fixing of existing grid inlet				
	(a) Replace existing phrame and grid cover	no	1		
	(a) Install new cast iron steps on deep manholes	no	1		
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) Non-mountable kerb (fig.7 SABS)	m	6000,00		
	(b) Concrete edge berm - cast in-situ	m	100,00		
	(a) Transition kerb - cast in-situ	m	10,00		
21.03	Excavation for open drains:				
	(a) Excavating soft material situated within the depth ranges below the surface level:				
	(i) 0m up to 1,5m	m ³	500		
23.07	Trimming of excavations for concrete-lined open drains:				
	(a) In soft material	m ²	1000,00		
	(b) In hard material	m ²	100,00		
23.08	Concrete lining for open drains:				
	(a) Cast in situ concrete lining Class 30/19:				
	(i) Type F drains: 0 to 3.5m wide 150mm thick	m ³	150,00		
23.09	Formwork to cast in situ concrete lining for open drains (Class F1 surface finish):				
	(b) To sides with formwork on both internal and external faces (each face measured)	m ²	150,00		
	(c) To ends of slabs	m ²	75,00		
23.10	Sealed joints in concrete linings of open drains and concrete kerbing:				
	(a) Silicone joint sealant ("Bostic 22DS100") or approved equivalent in expansion joints, 15mm wide and 10mm deep	m	310,00		
23.12	Steel reinforcement:				
	(c) High tensile steel Mesh, Ref. 245	t	7,50		
2300	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS
SECTION 3300
MASS EARTHWORKS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
3300	MASS EARTHWORKS				
B33.01	Commercial source material to fill (C) Rock rill (300mm dump rock)	m ³	1 500		
33.04	Cut to spoil, including free haul up to 1,0 km. Material obtained from :				
	(a) Soft excavation	m ³	5 356		
	(b) Intermediate excavatiom	m ³	2 678		
	(c) Hard excavation	m ³			
33.07	Removal of unsuitable material (including free-haul of 0.5 km)				
	(a) In layer thicknesses of 200 mm and less: (i) Stable and unstable material:	m ³	150		
B33.10	Roadbed preparation, Rip and compaction of material 150mm				
	(a) Compaction to 90% of modified AASHTO density	m ³	2 976		
33/16.02	Extra over items 33.04 for overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m ³ -km	89 269		
3300	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS

SECTION 3400

PAVEMENT LAYERS OF GRAVEL MATERIAL

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.01	Pavement layers constructed from gravel taken from commercial source				
	(a) Gravel selected (G7 material) layer compacted to: (ii) 95% of modified AASHTO density (150mm compacted layer thickness)	m ³	5 951		
	(d) Gravel subbase (G6 chemical stabilized material) compacted to: (ii) 96% of modified AASHTO density (150mm compacted layer thickness)	m ³	5 951		
B34.03	Gravel shoulders wearing course compacted to 93% of modified AASHTO				
	Non-cemented Material	m ³	600		
3400	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	5951		
35.02	Chemical stabilizing agent: (a) Ordinary portland cement	t	417		
35.04	Provision and application of water for curing	kl	536		
35.05	Curing by covering with subsequent layer	m ²	19 838		
3500	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS
SECTION 3600
STABILIZATION

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
3600	<p>CRUSHED-STONE BASE</p> <p>(c) Constructed from type G1 material obtained from commercial sources and compacted to 85% of bulk bulk relative density (150mm)</p>	m ³	3422		
3600	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS
SECTION 4100
STABILIZATION

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
<p>4100</p> <p>41.01</p>	<p>PRIME COAT</p> <p>Prime coat:</p> <p>(a) MC30 (applied @ 0,7l/m2)</p> <p>(b) Aggregate for blinding</p>	<p>l</p> <p>m²</p>	<p>15969</p> <p>3422</p>		
<p>4100</p>	<p>TOTAL CARRIED FORWARD TO SUMMARY</p>				

SCHEDULE B : ROADWORKS
SECTION 4200
STABILIZATION

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
4200	ASPHALT BASE AND SURFACING				
42.02	Asphalt Surfacing ACM	m ²	22813		
42.04	30% diluted stable grade anionic emulsion tack coat applied at 0.6 l/m ²	m ³	17110		
42.08	100mm core in asphalt paving	no	20		
4200	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS

SECTION 5100

PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION				
51,01	Stone pitching				
	(a) Plain pitching:				
	(i) Method 1	m ²	250,00		
51,02	Riprap				
	(a) Packed riprap (critical mass of stone indicated)	m ³	250,00		
5100	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS

SECTION 5200

GABIONS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5200	GABIONS				
52,01	Foundation trench excavation and backfilling:				
	(b) In all other classes of material	m ³	80		
52,02	Surface preparation for bedding the gabions	m ²	160,00		
52,03	Gabions:				
	(a) Galvanized gabion boxes :				
	Mesh size: 80mm x 80mm				
	Wire diameter: 2.7mm				
	Diaphragm spacing: 1m				
	(i) 2m x 1m x 1m	m ³	80,00		
	(ii) 3m x 1m x 1m	m ³	80,00		
	(iii) 4m x 1m x 1m	m ³	80,00		
	(a) Galvanised gabion mattresses:				
	Mesh size: 80mm x 80mm				
	Wire diameter: 2.7mm				
	Diaphragm spacing: 1m				
	(ii) 6m x 2m x 0.5m	m ³	0		
52,04	Filter fabric (Grade U24 or approved equivalent)	m ²	0		
5200	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS
SECTION 5600
ROAD SIGNS

Item	Description	Unit	Tender Qty	Rate (R)	Amount (R)
5600	ANCILLARY ROADWORKS				
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	87,00 144,00		
56.03	Road sign supports (overhead road sign structures excluded):	t	10,00		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	7,00		
56.06	Extra over item 56.05 for cement-treated soil backfill	m ³	2,80		
56.07	Extra over item 56.05 for rock excavation	m ³	2,80		
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	7,50 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	1,00		
	(d) White lettering and symbols	m ²	10,00		
57.06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	1,00		
5700	TOTAL CARRIED FORWARD TO SUMMARY				

SCHEDULE B : ROADWORKS

SECTION 5900

FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

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	0,0		
	(b) Single carriageway road	km	3,0		
59.02	Treatment of old roads and temporary deviations	km	3,0		
5900	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	25 000,00	25 000,00
	(b) Charge on provisional sum for overheads and profits	%	25 000,00		
8100	TOTAL CARRIED FORWARD TO SUMMARY				