

BID NUMBER: THLM/SCM11/2023-2024/R-02: CONSTRUCTION OF VERENA C BUS AND TAXI ROUTE- WARD 11 SECTION 1200 GENERAL REQUIREMENTS AND PROVISIONS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
1200	GENERAL REQUIREMENTS AND PROVISIONS				
12.01	The Contractor's obligations in respect of Local and other Labourers:				
	(d) Provision for Medical Examination for Local Labourers	PC Sum	1	50 000,00	50 000,00
	(e) Contractor's charge to allow for handling costs and profit in respect of subitem 12.01(c) &(d)	%	50 000,00		
B12.02	Liaison Officer and Member of the Steering:				
	(a) Remuneration of Liaison Officer including a cellphone allowance	PC Sum	1	100 000,00	100 000,00
	(b) Contractor's charge to allow for handling costs and profit in respect of subitem 12.02(a)	%	100 000,00		
B12.03	Contractor's obligations in respect of Emerging Contractors:				
	(a) Remuneration Supervisor for SMMEs	PC Sum	1	200 000,00	200 000,00
	(b) Contractor's charge to allow for handling costs and profit in respect of subitem 12.03(a)	%	200 000,00		
B12.04	Training:				
	(a) Technical skills accredited and approved training courses for selected local and other Labourers including wages during training	Prov. Sum	1	200 000,00	200 000,00
	(b) Remuneration of workers undergoing training and other Labourers including wages during training	Prov Sum	1	50 000,00	50 000,00
	(c) Contractor's charge to allow for handling costs and profit in respect of subitem B12.04 (a) (b) & (c)	%	250 000,00		
	(d) Remuneration and all associated costs for the employment of One FET or University graduate from the local community as approved by the Engineer	PC Sum	1	96 000,00	96 000,00
	(h) Training of Emerging Contractors	PC Sum	1	150 000,00	150 000,00
	(i) Contractor's charge to allow for handling costs and profit in respect of subitem 12.04(g)&(h)	%	246 000,00		
TOTAL CARRIED FORWARD					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
BALANCE BROUGHT FORWARD					
1200	GENERAL REQUIREMENTS AND PROVISIONS				
B12.06	Hand excavation for the exposing of, or searching of services, by hand:				
	(a) 0 m up to 2 m				
	(i) Soft material	m ³	100,00		
	(ii) Hard material	m ³	20,00		
	(b) Exceeding 2 m up to 4 m				
	(i) Soft material	m ³	50,00		
	(ii) Hard material	m ³	5,00		
B12.07	Supply and erection of contract sign boards	No.	2,00		
B12.08	Protection, removal, realignment and replacement of Services:				
	(a) Provisional sum for relocation or protection of sewer infrastructure	Prov. Sum	1	500 000,00	500 000,00
	(b) Provisional sum for protection or relocation of Telkom services and fibre optics	Prov. Sum	1	50 000,00	50 000,00
	(c) Provisional sum for relocation or protection of existing water mains	Prov. Sum	1	500 000,00	500 000,00
	(d) Provisional sum for protection or relocation of Electrical Infrastructure (Eskom) as instructed by the Engineer	Prov. Sum	1	100 000,00	100 000,00
	(e) Provisional sum for detection of underground services as instructed by the Engineer	Prov. Sum	1	50 000,00	50 000,00
	(f) Contractor's handling costs and other charges on subitems B12.08(a) to (f)	%	1 200 000,00		
B12.09	SMME Works packages				
	(a) (i) Concrete Kerbing and Channeling	Prov. Sum	1,00	600 000,00	600 000,00
	(ii) Contractor's charge to allow for handling costs and profit in respect of subitem B12.09 (a)(i)	%	600 000,00		
	(b) (i) Road markings and Signs	Prov. Sum	1,00	1 750 000,00	1 750 000,00
	(ii) Contractor's charge to allow for handling costs and profit in respect of subitem B12.09 (d)(i)	%	1 750 000,00		
	(c) (i) Supply and laying of Concrete Pipes	Prov. Sum	1,00	300 000,00	300 000,00
	(ii) Contractor's charge to allow for handling costs and profit in respect of subitem B12.09 (d)(i)	%	300 000,00		
TOTAL CARRIED FORWARD					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
BALANCE BROUGHT FORWARD					
B12.10	(e) (i) Gabions & Stone Pitching	Prov. Sum	1,00	1 500 000,00	1 500 000,00
	(ii) Contractor's charge to allow for handling costs and profit in respect of subitem B12.09 (e)(i)	%	1 500 000,00		
	Provision of EPWP branding and overalls:				
	(a) E/O for the provision of ORANGE overalls for EPWP labour	Prov. Sum	1,00	40 000,00	40 000,00
	(b) E/O for the provision of EPWP branding on overalls for EPWP labour	Prov. Sum	1,00	10 000,00	10 000,00
	(c) Contractor's charge to allow for handling costs and profit in respect of subitem 12.02(a)(b) and (c)	%	50 000,00		
	B12.11 Engineers Disbursement				
	(a) Allow a provisional sum for engineers site supervision	Prov. Sum	1,00	450 000,00	450 000,00
	(b) Contractor's charge to allow for handling costs and profit in respect of subitem B12.11 (a)	%	450 000,00		
	B12.12 Combined Engineer's/Contractor's site laboratory				
1200	(a) Combined Laboratory	Prov. Sum	1,00	500 000,00	500 000,00
	(b) Contractor's charge to allow for handling costs and profit in respect of subitem B12.12 (a)	%	500 000,00		
TOTAL CARRIED TO SUMMARY					

SECTION 1300 CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	The Contractor's general obligations:				
	(a) Fixed obligations	Lump Sum	1		
	(c) Time-related obligations	Monthly	8		
NOTE	The combined total tendered for subitems (a) and (c) above should not exceed 11% of the Tender Sum (Excl. CPA, contingencies and VAT) i.e. TOTAL SCHEDULE A				
	(d) Health and Safety obligations(Incl. COVID-19)	Monthly	8		
	(e) Environmental obligation	Monthly	8		
	(f) Security on site	Monthly	8		
B13.05	Additional Cost for Subcontractors				
	(a) Establishment on site and general Obligations of Subcontractors	Prov. Sum	1	1 000 000,00	1 000 000,00
1300	TOTAL CARRIED TO SUMMARY				

SECTION 1400 HOUSING, OFFICES, LABORATORIES AND GENERAL OBLIGATIONS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
1400	HOUSING, OFFICES AND LABORATORIES AND GENERAL OBLIGATIONS				
14.01	Office and laboratory accommodation:				
	(a) Offices (interior floor space only) of utility services	m ²	60		
	(b) Ablution units	m ²	6		
	(c) Boardroom	m ²	10		
14.02	Office and laboratory furniture:				
	(a) Chairs	No	10		
	(b) Draughtsman's stools	No	2		
	(d) Desks, complete with drawers and locks	No	2		
	(e) Drawing tables	No	3		
	(f) Conference tables	No	1		
B14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points	No	8		
	(ii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	No	8		
	(iii) Hand wash basins complete with taps and drains	No	2		
	(iv) Fire extinguishers, 9.0 kg all purpose dry powder type, complete mounted on wall with brackets	No	10		
	(v) Air-conditioning units with 2.2kw minimum capacity mounted on wall with brackets	No	4		
	(vi) Curing chamber for UCS specimens, complete with water connection, including the provision of brick partitions, plaster, paint and shelving, all complete according to the drawings	No	1		
	(vii) General-purpose steel cupboards with shelves				
	(vii) Steel filing cabinets with drawers	No	4		
	(ix) Refrigerators	No	4		
	(x) Microwave, 1kw	No	4		
	(xi) Supply of Computer and Printer (Laptop i5, Including MSOffice and MS Projects	No	2		
		No	2		
TOTAL CARRIED FORWARD					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
BALANCE BROUGHT FORWARD					
1400	HOUSING, OFFICES AND LABORATORIES AND GENERAL OBLIGATIONS				
B14.03	(xii) Cellphones for the duration of the contract	No	2		
	(xiii) Flood Lights complete with poles and 500 Watt min globes	No	1		
	(xiii) Projector (Full HD 1080P) and Screen (Incl Tripod)	No	1		
	(xv) Kettle	No	1		
	(xvi) Refreshments (Tea, Coffee and Milk)	Month	8		
14.04	(b) Prime-cost items and items paid for in a lump sum:				
	(i) The provision of telephone service, including the cost of calls inconnection with contract administration and telephone rental and internet connection	PC Sum	1	20 000,00	20 000,00
	(ii) Handling costs and profit in respect off sub-item B14.03(b)(i) above	%	20 000		
14,05	Car-ports: Car ports as specified, at offices and laboratory buildings	No	6		
B14.08	Services:				
	(a) Servi es at offices:				
	(i) Fixed costs	Prov Sum	1	50 000,00	50 000,00
	(ii) Handling costs and profit in respect of sub-item B14.08 (a)(i) above	%	50 000,00		
	(iii) Running costs	Month	8		
	(c) Servi es for rented houses	Month	8		
	(d) Servi es for labourers's accomodation on the Site:				
	(i) Fixed Costs	Lump Sum	1		
	(ii) Running Costs	Month	8		
B14.10	Provision of a printer capable of printing, copying and scanning up to a paper size of A3	Month	8		
1400	TOTAL CARRIED TO SUMMARY				

SECTION 1500 ACCOMMODATION OF TRAFFIC

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
1500	ACCOMMODATION OF TRAFFIC				
B15.01	Accommodating traffic and maintaining temporary deviations:				
	(a) On the Route	km	2,5		
	(b) On the cross roads	km	1		
15,02	Earthworks for temporary deviations				
	(a) Shaping of temporary deviations	km	2,5		
B15.03	Temporary traffic-control facilities				
	(a) Flagmen	man-day	600		
	(b) Portable STOP and GO-RY signs	No	3		
	(e) Road signs, R- and TR-series:				
	(i) 900mm diameter	No	10		
	(f) Road signs, TW-series, (with distance board)				
	(i) 1200mm diameter	No	10		
	(h) Delineators (W401 or W402) (200 mm x 800 mm sides) complet with stand and ballast:				
	(i) Single sided	No	75		
	(ii) Double sided	No	50		
	(j) Traffic cones (800 mm)	Lump sum	1		
	(l) Moveable barriers (Plastic "New Jersey" type)	m	200		
	(n) Other traffic control measures ordered by the Engineer:				
	(i) Provision of other traffic control measures	Prov. Sum	1	20 000,00	20 000,00
	(ii) Handling costs and profit in respect of subitem 15.03(n)(i)	%	20 000,00		
15,06	Watering of temporary deviations	kl	100		
15,08	Repairs, alterations and/or additions to existing roads used as temporary deviations	Prov. Sum	1	50 000,00	50 000,00
15,16	Provision of traffic safety officer	Month	8		
1500	TOTAL CARRIED TO SUMMARY				

SECTION 1700 CLEARING AND GRUBBING				0	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
17.00	CLEARING AND GRUBBING				
B17.01	Clearing and grubbing				
	(b) By machine	m ²	24 000,0		
17.02	Removal and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1m up to and including 2m	No	3,0		
	(b) Girth exceeding 2m up to and including 3m	No	2,0		
	(c) Girth larger than 3m up to and including 4m	No	1,0		
17.03	Re-clearing of surfaces (on the written instructions of the Engineer only)	m ²	4 000,0		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m ²	50,0		
B17.05	Cleaning 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	25,0		RATE ONLY
	(c) Box culverts up to and including 1,5 m vertical dimension	m ³	15,0		RATE ONLY
	(d) Box culverts exceeding 1,5 m vertical dimension	m ³	2,0		RATE ONLY
17.06	Removal and storage of selected vegetation:				
	(a) Cost of removal, storing, protection and replanting in a protected and fenced- off area of selected vegetation	Prov sum	1		
	(b) Charge on provisional sum	%	30 000,00		
B17.07	Demolition and removal of rubble:				
	(a) Plain concrete or foundations	m ³	150,0		
	(b) Reinforced concrete	m ³	150,0		
	(c) Brickwork, stone masonry, brickwalls, precast walls, etc.	m ³	150,0		
1700	TOTAL CARRIED TO SUMMARY				

SECTION 1800 DAYWORKS				0	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
1800	DAYWORKS				
B18.01	Personnel:				
	(a) Unskilled	Hour	220,0		
	(b) Semi-skilled	Hour	140,0		
	(c) Skilled	Hour	95,0		
	(d) Foremen	Hour	50,0		
B18.02	Equipment:				
	(a) T Tipper trucks:				
	(i) 6m ³	Hour	15,0		
	(ii) 10m ³	Hour	10,0		
	(b) TLB	Hour	80,0		
	(c) Loader (0,5m ³ bucket)	Hour	10,0		
	(e) Walk-behind roller (Bomag BW90)	Hour	80,0		
	(f) Water spray truck (5000l)	Hour	40,0		
B18.03	Materials:				
	(a) Procurement of materials	Prov. Sum	1	250 000,00	250 000,00
	(b) Contractor's handling costs, profit and all other charges in respect of B18.03	%	250 000,00		
B18.04	Transport:				
	(a) LDV (1 ton)	km	300,0		
	(b) Flatbed truck (5 ton)	km	100,0		
	(c) Lowbed truck max (30 ton)	km	100,0		
1800	TOTAL CARRIED TO SUMMARY				

SECTION 2100 DRAINS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2100	2100 DRAINS				
B21.01	Excavation of open drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level.				
	(i) 0 m up to 1,5 m	m³	3 360,00		
	(ii) Exceeding 1,5 m and up to 3,0 m	m³	720,00		
	(b) Extra over subitem 21.01(a) for excavation in hard material irrespective of depth	m³	408,00		
	Clearing and shaping existing open drains				
21,02	Overhaul for material hauled in excess of 1,0 km free-haul (normal overhaul)	m³	816,00		
21/B16.01		m³-km	79 560,00		
2100	TOTAL CARRIED TO SUMMARY				

SECTION 2200: PREFABRICATED CULVERTS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
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	400,00		
	(ii) Exceeding 1,5m and up to 3,0m	m ³	360,00		
	(b) Extra-over sub-item 22.01(a) for excavation in hard material, irrespective of depth	m ³	72,00		
B22.02	Backfilling:				
	(a) Using the excavated material	m ³	200,00		
	(b) Using imported selected material (G7 quality)	m ³	100,00		
	(c) Extra-over sub-items 22.02(a) and (b) for soil cement backfilling (with 1% Cement)	m ³	30,00		
B22.03	Concrete pipe culverts:				
	(b) On Class B bedding:				
	(1) Type SC100 D-Load pipes with spigot and socket joints including rolling rubber rings:				
	(i) 600mm dia.	m	120,00		
	(vi) 900mm dia.	m	30,00		
22,07	Cast in situ concrete and formwork:				
	(a) In class A bedding, screeds (75mm thick) including formwork:				
	(i) Class 15/19 concrete	m ³	60,00		
	(b) In floor slabs for portal or rectangular culverts, including formwork, joints and Class U2 surface finish:				
	(i) Class 30/19 concrete	m ³	75,00		
TOTAL CARRIED FORWARD					

SECTION 2200: PREFABRICATED CULVERTS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
BALANCE BROUGHT FORWARD					
2200	PREFABRICATED CULVERTS				
	In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surface finish:				
	(c) Class 30/19 concrete (Wingwalls, cutoff walls, headwalls and apron slab)	m³	30,00		
	(d) Formwork of concrete under subitem B22.07(c) above:				
	(i) Class F1 surface finish	m²	200,00		
	(ii) Class F2 surface finish	m²	200,00		
22.10	Steel reinforcement (for base slab and cutoff walls, wingwalls,				
	(a) Mild steel bars	t	5,00		
	(b) High-tensile steel bars	t	5,00		
	(c) Welded steel fabric				
	(i) Mesh Ref.311	kg	2 000,00		
	(ii) Mesh Ref.617	kg	250,00		
TOTAL CARRIED FORWARD					

SECTION 2200: PREFABRICATED CULVERTS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
BALANCE BROUGHT FORWARD					
2200	PREFABRICATED CULVERTS				
22,18	Brickwork				
	(b) 230 mm thick	m²	100,00		
22,19	Plaster	m²	100,00		
22,20	Benching	m²	50,00		
22,23	Service ducts				
	(a) Ordinary pipes				
	(i) Unplasticised PVC pipes				
	(i) 110 mm dia.	m	100,00		
	(i) 160 mm dia.	m	50,00		
22,24	Duct marker blocks				
	(a) Concrete as per drawing	No	2,00		
	(b) Duct marker posts complete as shown on the drawings	No	2,00		
B22.25	Overhaul on excavated material carted to spoil (but excluding Portland	m³.km	8 400,00		
22,26	Hand excavation to determine the positions of existing services	m³	100,00		
2200	TOTAL CARRIED TO SUMMARY				

SECTION 2300: CONCRETE KERBING,

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE R . c	AMOUNT R . c
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing:				
	(a) Precast kerbing to SABS 927				
	(3) Figure 3 kerb				
	(i) Straight sections	m	200,00		RATE ONLY
	(8) Figure 8 kerb (all types)				
	(i) Straight sections	m	400,00		RATE ONLY
	(ii) Curved sections, radius over 4m, but up to and including 20m	m	400,00		RATE ONLY
	(10) Figure 10 kerb				
	(i) Straight sections	m	150,00		RATE ONLY
	(ii) Curved sections, radius over 4m, but up to and including 20m	m	50,00		RATE ONLY
	(b) 300 mm x 200 mm cast in situ class 20/20 concrete edge beam, as shown on the drawings	m	50,00		RATE ONLY
23.02	Concrete kerbing-channelling combination:				
	(a) Precast concrete fig 8 kerb to SABS 927 and cast In-situ channel (concrete class 25/19) 200mm wide x 150 mm high				
	(i) Straight Sections	m	200,00		RATE ONLY
	(ii) Curved sections, radius over 4m, but up to and including 20m	m	200,00		RATE ONLY
23.05	Concrete Edge beam				
	(a) Concrete class: 30Mpa/20	m³	100,00		RATE ONLY
2300	TOTAL CARRIED TO SUMMARY				

BID NUMBER: THLM/SCM11/2023-2024/R-02: CONSTRUCTION OF VERENA C BUS AND TAXI ROUTE WARD 11

SECTION 3300: MASS EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
3300	MASS EARTHWORKS				
B33.04	Cut to spoil (at a licenced dumping site within a radius of 10km), including free-haul up to 0,5 km. Material obtained from:				
	(a) Soft excavation	m ³	20 000		
	(b) Intermediate excavation	m ³	4 000		
	(c) Hard excavation	m ³	400		
	(d) Boulder Excavation - Class A	m ³	50,00		
	(e) Boulder Excavation - Class B	m ³	25,00		
B33.10	Roadbed preparation and the compaction of material:				
	(b) Compaction to 93% of MDD				
	(i) On sidewalks	m ³	100,00		
	(ii) On roadway	m ³	3 260		
B33.21	Fill constructed with material from temporary (not designated) stockpiles or directly from existing pavement layers and existing road prisms, irrespective of material type, including all haul:				
	(a) Gravel material in compacted layer thickness of 200 mm and less:				
	(i) Compacted to 90% of MDD density	m ³	200		
33/B16.01	Overhaul to a licenced spoil site (within a radius of 10km)	m ³ .km	244 000,00		
33/B16.02	Overhaul on Material Hauled in excess of 1.0km (ordinary overhaul)	m ³ .km	116 760,00		
33/32.06	Stockpiling of Material	m ³	632,00		
3300	TOTAL CARRIED TO SUMMARY				

SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.14	Pavement layers constructed from gravel, sourced from a commercial source				
	(b) Gravel selected layer (G9) compacted to:				
	(i) 95% of modified AASHTO density for a compacted layer thickness of 150m	m³	1000		
	(b) Gravel selected layer (G7) compacted to:				
	(i) 95% of modified AASHTO density for a compacted layer thickness of 150m	m³	3830		
	(e) Gravel subbase using G6 material (unstabilized gravel) compacted to:				
	(i) 97% of modified AASHTO density for a compacted layer thickness of 150m	m³	3660		
	k Gravel base using C4 material (chemically stabilized material) compacted to:				
	(ii) 98% of modified AASHTO density for a compacted layer thickness of 150m	m³	6580		
3400	TOTAL CARRIED TO SUMMARY				

SECTION 3500: STABILIZATION

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
3500	STABILIZATION				
B35.01	Chemical stabilization (250mm C4) constructed using insitu material blended with G5 material from commercial sources				
	(i) On Sidewalks	m³	90		
	(ii) On Roadway	m³	6250		
35.02	Chemical stabilizing agent:				
	(a) Ordinary portland cement	t	410,0		
35.04	Provision and application of water for curing	kl	1 250,0		
3500	TOTAL CARRIED TO SUMMARY				

SECTION 3600 CRUSHED STONE BASE

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
3600	CRUSHED STONE BASE				
B36.01	Crushed-stone base: (a) Constructed from type G2 material obtained from commercial sources and compacted to 100% of modified AASHTO density 150mm thick	m³	1 000,50		
B36.03	Crushed-stone base trial section (150mm) constructed in accordance with the provisions of clause 36.03	m³	100,00		
B36.16	Finishing off base layer by slushing using water	m²	6 670,00		
3600	TOTAL CARRIED TO SUMMARY				

SECTION 4100 PRIME COAT

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
4100	PRIME COAT				
41.01	Prime coat:				
	(c) MC-30 Cut-back bitumen	litre	5 669,50		
4100	TOTAL CARRIED TO SUMMARY				

SECTION 4200 ASPHALT BASE AND SURFACING

ITEM NO	DESCRIPTION	UNIT	QUANTITY	0	
				RATE R . c	AMOUNT R . c
4200	ASPHALT BASE AND SURFACING				
B42.02	Asphalt surfacing (45mm A-E2)				
	(a) Continuously graded asphalt (10mm maximum aggregate)	t	780,00		
42.04	Tack coat of 30% stable-grade emulsion	litre	6 336,50		
B42.05	Binder variations:				
	(b) Class A-E2 modified binder	t	100,00		
42.06	Variations in active filler content:				
	(a) Cement	t	25,00		
B42.08	100 mm cores in asphalt paving	No	30,00		
42,14	Extra over items 42.04 for applying tack coat in restricted areas	litre	500,00		
42,15	Application of prime coat and/or tack coat to edges of a layer	litre	5 000,00		
B42.21	Installation of speedhumps using continuously graded asphalt (using Class A-P1 modified binder and 30 mm maximum aggregate size), complete including saw cutting, tack coat and shaping but excluding signs and markings.	No.	10		
B42.22	Installation of raised pedestrain crossing using continuously graded asphalt (using Class A-P1 modified binder and 30 mm maximum aggregate size), complete including saw cutting, tack coat and shaping but excluding signs and markings.	No.	10		
B42.23	Variation in aggregates	t	300,00		
4200	TOTAL CARRIED TO SUMMARY				

SECTION 5100 PITCHING,STONEWORK AND PROTECTION AGAINST EROSION

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
51,00	5100: PITCHING,STONEWORK AND PROTECTION AGAINST EROSION				
51.01.	Stone pitching:				
	(b) Grouted stone pitching	m²	4400		RATE ONLY
B51.06	Provision of vegetation destroyer and ant poison:	Prov. Sum	1	10 000,00	10 000,00
5100	TOTAL CARRIED TO SUMMARY				

SECTION 5200 GABIONS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
5200	GABIONS				
52,01	Foundation trench excavation and backfilling:				
	(a) In solid rock (material which requires blasting)	m ³	5,00		RATE ONLY
	(b) In all other classes of materials	m ³	50,00		RATE ONLY
52,02	Surface preparation for bedding the gabions	m ²	100,00		RATE ONLY
52,03	GABIONS				
	(a) Galvanized gabion boxes with 80 mm x 100 mm mesh and 2,7 mm dia mesh wire				
	(i) 0,5 m x 0,5 m x 1,0 m	m ³	10,00		RATE ONLY
	(ii) 1,0 m x 0,3 m x 1,0 m	m ³	1,00		RATE ONLY
	(iii) 1,0 m x 1,0 m x 1,0 m	m ³	10,00		RATE ONLY
	(b) Galvanised gabion mattresses				
	(i) 0,3 m deep with 80 mm x 100 mm mesh and diaphragms at 1,0 m centres and 2,7 mm dia mesh wire	m ³	20,00		RATE ONLY
	(ii) 0,5 m deep with 80 mm x 100 mm mesh and diaphragms at 1,0 m centres and 2,7 mm dia mesh wire				
	Filter fabric	m ³	5,00		RATE ONLY
52,04	(b) Synthetic-fibre filter fabric Grade 3	m ²	500,00		RATE ONLY
5200	TOTAL CARRIED TO SUMMARY				

SECTION 5400 GUARDRAILS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
5400	GUARDRAILS				
B54.01	Guardrails on 3,81 m spaced posts:				
	(a) Complete galvanised system on:				
	(i) Timber posts	m	250,00		
	(b) Complete galvanised system on:				
	(i) Flared ends (including end wing)	No	25,00		
	(ii) End treatments where singled guardrail sections are used (including additional posts)	No	25,00		
54,06	Reflective plates	No	150,00		
B54.14	Nailing of gang nail plates on top of timber guardrail posts	No	160,00		
5400	TOTAL CARRIED TO SUMMARY				

SECTION 5600 ROAD SIGNS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
5600	ROAD SIGNS				
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 1,6 mm thick or approved equivalent): (1) Area not exceeding 2 m ² (2) Area exceeding 2 m ² but not 10 m ² (3) Area exceeding 10 m ²	m ²	150,00		RATE ONLY
		m ²	100,00		RATE ONLY
		m ²	40,00		RATE ONLY
56.02	Extra over item 56.01 for using: (a) Background of retro-reflective material of: (1) Class 1 (2) Class 11 (b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material: (1) Class 1 (2) Class 11	m ²	100,00		RATE ONLY
		m ²	100,00		RATE ONLY
		m ²	150,00		RATE ONLY
		m ²	100,00		RATE ONLY
56.03	Road sign supports (overhead road sign structures excluded): (a) Steel tubing (76mm dia., 3mm wall thickness) (b) Timber (76mm diameter S.A pine timber)	t	2,00		RATE ONLY
		m	400,00		RATE ONLY
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	No	60		RATE ONLY
56.06	Extra over item 56.05 for cement-treated soil backfill	No	45		RATE ONLY
56.07	Extra over item 56.05 for rock excavation	No	10		RATE ONLY
5600	TOTAL CARRIED TO SUMMARY				

SECTION 5700 ROAD MARKINGS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
5700	ROAD MARKINGS				
57,01	Road marking paint:				
	(a) White lines (broken or unbroken)				
	(1) 100mm wide	km	5,00		RATE ONLY
	(2) 150 mm wide	km	1,00		RATE ONLY
	(4) 300mm wide	km	0,50		RATE ONLY
	(d) White lettering and symbols	m²	500		RATE ONLY
	(e) Yellow lettering and symbols	m²	200		RATE ONLY
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m²	150		RATE ONLY
57,03	Thermoplastic road-marking paint:				
	(a) White lines (broken or unbroken)				
	(1) 100 mm wide	km	5,00		RATE ONLY
	(2) 150 mm wide	km	1,00		RATE ONLY
	(4) 300mm wide	km	0,50		RATE ONLY
	(d) White lettering and symbols	m²	500		RATE ONLY
	(e) Yellow lettering and symbols	m²	300		RATE ONLY
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m²	150		RATE ONLY
57,04	Variations in rate of application:				
	(a) White paint	litre	200		
	(b) Yellow paint	litre	150		
	(d) Retro-reflective beads	kg	100		
57,06	Setting out and premarking the lines (Excluding traffic-island markings, lettering and symbols)	km	12		
5700	TOTAL CARRIED TO SUMMARY				

SECTION 5900 FINISHING THE ROAD AND ROAD RESERVE

				0	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
5900	FINISHING THE ROAD AND ROAD RESERVE				
59,01	Finishing the road and road reserve:				
	(b) Single-carriageway road	km	2,5		
5900	TOTAL CARRIED SUMMARY				

SECTION 7300: CONCRETE BLOCK PAVING FOR SIDEWALK

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
7300	CONCRETE BLOCK PAVING FOR SIDEWALKS				
73.01	Concrete block paving:				
	(a) Class 35Mpa, Type S-A 80mm)	m²	17 030,00		
B73.02	Cast-in-situ concrete edge and intermediate beams (25MPa/19mm edge beam size 150mm wide x 150mm high, wood floated on top, angle rounded edges and 110mm thick jointex expansion joints at 3m centres)				
	(a) Straight sections	m³	90,00		
	(b) Curved sections, radius over 4m, but up to and including 20m	m³	180,00		
73.03	Provision of approved herbicide and ant poison:				
	(a) Provision of materials	PC Sum	1,00		
	(b) Contractor's charges and profit added to the prime cost sum	%	25 000		
B73.04	Speed Humps				
	(a) Speed humps complete as per Engineers drawing	No	16,00		
73.06	Polyethylene sheeting: Extra-over Item 73.01:				
	(i) 0,15mm thick	m²	17 030,00		
7300	TOTAL CARRIED SUMMARY				

SECTION 8100 TESTING MATERIALS AND WORKMANSHIP

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				R . c	R . c
8100	TESTING MATERIALS AND WORKMANSHIP				
81.02	Other special tests requested by the engineer				
	(a) Cost of Testing	PC Sum	1		
	(b) Charge on Prime Cost sum	%	200 000,00		
8100	TOTAL CARRIED TO SUMMARY				

**BID NUMBER: THLM/SCM11/2023-2024/R-02: CONSTRUCTION OF VERENA C BUS
AND TAXI ROUTE WARD 11**

SUMMARY OF BILL OF QUANTITIES

ITEM	DESCRIPTION	AMOUNT
		Tendered
ROAD WORKS		R . C
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
1400	HOUSING OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE STAFF	
1500	ACCOMMODATION OF TRAFFIC	
1700	CLEARING AND GRUBBING	
1800	DAYWORKS	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
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,STONWORK AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5400	GUARDRAILS	
5600	ROAD SIGNS	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE	
7300	CONCRETE BLOCK PAVING FOR ROADS	
8100	TESTING MATERIALS AND WORKMANSHIP	
TOTAL SCHEDULE A		

BID NUMBER: THLM/SCM11/2023-2024/R-02: CONSTRUCTION OF VERENA C BUS AND TAXI ROUTE WARD 11

SUMMARY OF PRICING SCHEDULE

CALCULATION OF TENDER SUM	AMOUNT
TOTAL SCHEDULE A: P&Gs, STORMWATER & ROADWORKS	R
SUBTOTAL A: TOTAL OF ALL SCHEDULES	R
ADD 10% CONTIGENCIES	R
VARIATIONS	R
SUBTOTAL B: EXCLUDING VAT	R
ADD VALUE ADDED TAX (11%)	R
TENDER SUM CARRIED TO FORM OF OFFER	R