

Client Line 1:	Province of Mpumalanga
Client Line 2:	Thembisile Hani Local Municipality
Contract No	THLM/SCM22/2022-2023/RS06
Contract Description	Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

SCHEDULE A: ROADWORKS

CHAPTER C1.2

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C1.2	GENERAL REQUIREMENTS AND PAYMENT					
C1.2.1	Environmental Management					
C1.2.1.1	Monitoring of compliance with and reporting on the EMP	month		2		
C1.2.1.2	Dedicated environmental officer (if specified in the Contract Documentation)	month		2		
C1.2.2	Programming and Reporting					
C1.2.2.3	Submission of a Scheme 2 Initial Programme	Lump Sum		1		
C1.2.2.4	Submission of a Scheme 2 Full Programme	Lump Sum		1		
C1.2.2.5	Reviewing and updating a Scheme 2 Programme every month	month		2		
C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	month		2		
C1.2.3.9	Grading of temporary gravel deviations and existing roads used as detours	km		14,64		
C1.2.3.10	Watering of temporary gravel deviations and existing roads used as detours	kℓ		975		
C1.2.3.11	Other road maintenance work ordered by the Engineer	Prov Sum		1	10 000,00	R 10 000,00
C1.2.3.12	Handling cost, profit and all other charges in respect of item C1.2.3.11	%		R 10 000,00		
C1.2.4	Stakeholder liaison	month		2		
C1.2.5	Safety					
C1.2.5.1	Health and safety plan	Lump Sum		1		
C1.2.5.2	Implementation of health and safety plan	month		2		
C1.2.6	Work adjacent to properties					
C1.2.6.2	Preventive and/or mitigation measures	Prov Sum		1	5 000,00	R 5 000,00
C1.2.6.3	Handling cost, profit and all other charges in respect of item C1.2.6.2	%		R 5 000,00		
C1.2.8	Dayworks					
C1.2.8.1	Personnel					
(a)	Unskilled labourer	hour	LI	10		
(b)	Semi-skilled labourer	hour	LI	10		
(c)	Skilled labourer	hour	LI	10		
(d)	Gang leader	hour	LI	10		
C1.2.8.2	Construction Equipment					
(a)	Motor grader (Cat 140G Grader or equivalent)	hour		10		
C1.2	TOTAL CARRIED FORWARD					

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CHAPTER C1.2

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
	TOTAL BROUGHT FORWARD					
(b)	Vibratory roller (90 Pedestrian roller or equivalent)	hour		10		
(c)	Pneumatic roller (22 ton)	hour		10		
(d)	Front end loader backhoe (Cat 428 TLB or equivalent)	hour		10		
(e)	Excavator (Cat 350 Excavator or equivalent)	hour		10		
(h)	Other equipment (specify)					
(i)	Cat D7H dozer or equivalent	hour		10		
(ii)	15 Ton Grid roller and tractor	hour		10		
(iii)	Watercart 10 000l	hour		10		
(iv)	Road sweeper	hour		10		
(v)	10 m3 Tippers	hour		10		
C1.2.8.3	Vehicles					
(a)	Light delivery vehicle (1 ton)	km		100		
(b)	Flatbed truck (8 tons)	km		100		
C1.2.8.4	Materials					
(a)	Procurement of materials	Prov Sum		1	4 000,00	R 4 000,00
(b)	Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	%		R 4 000,00		
PSC1.2.10	Community Participation					
(a)	Cost for community Participation (PLC and CLO	PC Sum		1	9 600,00	R 9 600,00
(b)	Handling costs and profit in respect of sub-item PSC1.2.10(a) above	%		R 9 600,00		
C1.2	TOTAL CARRIED TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C1.3

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS					
C1.3.1	The Contractor's general obligations					
C1.3.1.1	Fixed obligations	Lump Sum		1		
C1.3.1.2	Value-related obligations	Lump Sum		1		
C1.3.1.3	Time-related obligations	month		2		
C1.3.2	Contract sign boards	m ²		12		
C1.3	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C1.4

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C1.4	FACILITIES FOR THE ENGINEER					
C1.4.1	Site accommodation					
C1.4.1.1	Offices and conference room	m ²		4		
C1.4.1.2	Laboratories	m ²		4		
C1.4.1.3	Open concrete working floors and verandas	m ²		3		
C1.4.1.4	Roofs over open concrete working floors and verandas	m ²		3		
C1.4.1.5	Store rooms inside the laboratory	m ²		3		
C1.4.1.6	Car ports	No	LI	1		
C1.4.1.7	Ablution unit (equipment as specified)	No		2		
C1.4.1.13	Rented housing paid for by the Contractor	Prov Sum		1	20000	R 20 000,00
C1.4.1.14	Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13	%		20 000		
C1.4.2	Items measured by area					
C1.4.2.1	Shelving as specified, complete with brackets	m ²		2		
C1.4.2.2	Work benches with a concrete slab top	m ²	LI	2		
C1.4.2.4	Constant temperature baths of concret and/or plastered brick	m ²		1		
C1.4.2.5	Concrete footings and pedestals for laboratory equipment	m ²	LI	1		
C1.4.2.7	Venetian blinds	m ²		1		
C1.4.2.8	Notice boards	m ²		1		
C1.4.2.9	White boards	m ²		1		
C1.4.3	Items measured by number					
C1.4.3.2	Office chair	No		3		
C1.4.3.3	Draughtsman's stool	No		0		Rate Only
C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)	No		2		
C1.4.3.6	Typist desk (L-shaped)	No		0		Rate Only
C1.4.3.7	Drawing table	No		0		Rate Only
C1.4.3.8	Conference table	No		1		
C1.4.3.9	Bookcase	No		1		
C1.4.3.10	Filing cabinet	No		1		
C1.4.3.11	General purpose steel cabinet with shelves	No		1		
C1.4.3.13	220/250 volt power outlet plug point	No		1		
C1.4.3.15	Single 1 500 mm, 58 watt fluorescent tube ceiling light	No		1		
C1.4.3.15	Single 1 500 mm, 58 watt fluorescent tube ceiling light	No		1		
C1.4.3.19	Wash-hand basin	No		1		
C1.4.3.20	Laboratory basin	No		1		
C1.4	TOTAL CARRIED FORWARD					

SCHEDULE A: ROADWORKS						CHAPTER C1.4
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
	TOTAL BROUGHT FORWARD					
C1.4.3.21	Extractor fan	No		1		
C1.4.3.22	Fume cupboard	No		1		
C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type	No		2		
C1.4.3.24	Air-conditioning unit	No		1		
C1.4.3.25	Heater	No		1		
C1.4.3.26	Concrete specimen curing bath	No		1		
C1.4.3.27	Waste paper basket	No		1		
C1.4.3.28	UPS / Voltage stabiliser	No		1		
C1.4.3.29	A3 / A4 colour printer, copier, scanner	No		1		
C1.4.3.31	Rain gauge	No		1		
C1.4.3.32	Minimum / maximum atmospheric temperature guage	No		1		
C1.4.3.33	Digital thermometer	No		1		
C1.4.3.36	Measuring wheel	No		1		
C1.4.3.37	First aid kit	No		1		
C1.4.3.38	Standpipe complete with 30m of 19 mm dia. Heavy duty hose pipe	No		1		
C1.4.4	Prime cost items					
C1.4.4.1	Cell phones costs, including pro-rate rentals, for calls made in connection with contract administration	PC Sum		1	5 000,00	R 5 000,00
C1.4.4.2	Handling cost and profit in respect of item C1.4.4.1	%		5000		
C1.4.4.5	The provision of internet conectivity and WIFI data for Engineer's site staff	PC Sum		1	2 000,00	R 2 000,00
C1.4.4.6	Handling cost and profit in respect of item C1.4.4.5	%		R 2 000,00		
C1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner	PC Sum		1	5 000,00	R 5 000,00
C1.4.4.8	Handling cost and profit in respect of item C1.4.4.7	%		R 5 000,00		
C1.4.4.9	The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.	PC Sum		1	5 000,00	R 5 000,00
C1.4.4.10	Handling cost and profit in respect of item C1.4.4.9	%		R 5 000,00		
C1.4.5	Services at site offices, laboratories and site accommodation					
C1.4.5.1	Fixed costs	Lump Sum		1		
C1.4.5.2	Running costs	month		2		
C1.4.7.1	Provision of a bus, mini-bus or combi van for site inspection purposes (specify type and size of vehicle)	per day		2		
C1.4.7.2	Travel on site	km		200		
C1.4.8	Site security measures for the Engineer's facilities					
C1.4.8.1	Supply and installation of all required security measures at the Engineer's site offices and laboratories	Lump Sum		1	8 000,00	R 8 000,00
C1.4	TOTAL CARRIED FORWARD					

SCHEDULE A: ROADWORKS						AMOUNT
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
	TOTAL BROUGHT FORWARD					
C1.4.8.2	Provision of security gaurds / watchmen and an armed response service at the Engineer's site offices and laboratories	month		2		
C1.4	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS				CHAPTER PSC1.5		
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
PSC1.5	ACCOMMODATION OF TRAFFIC					
C1.5.1	Accommodation of pedestrian and non-motorised traffic					
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month		2		
C1.5.2	Accommodation of vehicular traffic	month		2		
C1.5.4	Construction of temporary deviations					
C1.5.4/C3.1	Drains					
C1.5.4/C3.1.1	Excavation for open drains:					
C1.5.4/C3.1.1.1	Excavating all material situated within the following depth ranges below the surface level using conventional methods :					
(a)	0m to 1.5m	m³		360		
C1.5.4/C3.2.1	Excavation for culvert structures:					
C1.5.4/C3.2	Culverts					
C1.5.4/C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:					
(a)	0m to 1.5m	m³		18		
C1.5.4/C3.2.2	Backfilling:					
C1.5.4/C3.2.2.1	Using the excavated material	m³		4		
C1.5.4/C3.2.3	Concrete pipe culverts:					
C1.5.4/C3.2.3.3	On Class C bedding (portal pipe culvert and 600 mm diameter)	m	LI	0		
C1.5.4/C5.1	Roadbed					
C1.5.4/C5.1.1	Roadbed construction and compaction					
C1.5.4/C5.1.1.1	Compaction of in-situ material to 90% of MDD	m³		0		
C1.5.5	Maintenance of temporary deviations					
C1.5.5.1	Grass cutting	ha	LI	1		
C1.5.5.2	Drain cleaning	km		2,000		
C1.5.5.3	Cleaning out culverts	m³		0		
C1.5.5.9	Grading of temporary deviations and existing roads used as detours	km		0		
C1.5.5.10	Watering of temporary deviations and existing roads used as detours	kl		0		
C1.5.5.11	Other road maintenance work ordered by the Engineer	Prov Sum		1	10 000,00	R 10 000,00
C1.5.5.12	Handling cost, profit and all other charges in respect of item C1.5.5.12	%		R 10 000,00		
C1.5.7	Temporary traffic control facilities					
C1.5.7.1	Delineators including mounting bases and ballast:					
(a)	Single sided, reversible left or right (size indicated)	No		100		
PSC1.5	TOTAL CARRIED FORWARD					

SCHEDULE A: ROADWORKS					CHAPTER PSC1.5	
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
(b)	Double sided, reversible left or right (size indicated)	No		50		
C1.5.7.2	Traffic cones, minimum height 750 mm	No		25		
C1.5.7.3	Flagmen	man-shift	LI	117,6		
(c)	Illuminated road sign - R & TR series (600 mm diameter)	No		2		
(d)	Illuminated road sign - TW series (750x1200mm)	No		2		
(c)	Illuminated road sign - R & TR series (600 mm diamter)	month		4		
(d)	Illuminated road sign - TW series (750x1200 mm)	month		4		
C1.5.7.8	Traffic control stations	month				
C1.5.8	Traffic safety officer	Man-month		2		
C1.5.9	Traffic safety vehicle	month		2		
C1.5.11	Provision of safety equipment for visitors					
C1.5.11.1	Provision of reflective safety vests for visitors	No		2		
C1.5.11.2	Provision of hard hats for visitors	No		2		
C1.5.12	Additional traffic accommodation facilities ordered by the Engineer:					
C1.5.12.1	Provision of additional traffic accomodation facilities	Prov Sum		1	5 000,00	R 5 000,00
C1.5.12.2	Handling cost, profit and all other charges in respect of item C1.5.12.1	%		R 5 000,00		
PSC1.5	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C1.6

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C1.6	CLEARING AND GRUBBING					
C1.6.1	Clearing					
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha		0,50		
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha		0,2		
C1.6.2	Grubbing					
C1.6.2.1	Clearing with machines and some hand labour where necessary	ha		0		Rate Only
C1.6.3	Removal and grubbing of large trees and tree stumps					
C1.6.3.1	Removal and grubbing of large trees and tree stumps:					
C1.6.3.1.1	Girth equal to or exceeding 1,0 m up to and including 2,0 m	No		1		
C1.6.3.2	Girth exceeding 2,0 m up to and including 3,0 m	No		1		
C1.6.9	Conservation of topsoil					
C1.6.9.1	Stockpilling topsoil	m ³		200		
C1.6.9.2	Windrowing topsoil	m ³		100		
C1.6	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C1.7

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C1.7	LOADING AND HAULING					
C1.7.1	Loading					
C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m ³		1 000		
C1.7.2	Hauling					
C1.7.2.1	Hauling material for use in the Works and off-loading it on the site of the Works:	m ³ - km		1 000		
(a)	Soil, gravel, crushed stone and pavement layer material	m ³ - km		0		Rate only
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil or stockpile are:					
(a)	Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m ³ - km		0		Rate Only
C1.7 TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE A: ROADWORKS

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

CHAPTER C2.1

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES					
C2.1.1	Location, Identification and relocation of existing services					
C2.1.1.2	Permanent services relocation or protection work by others	PC Sum	LI	1	R 10 000,00	R 10 000,00
C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%		10 000		
C2.1	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C3.1
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C3.1	DRAINS					
C3.1.1	Excavation for open drains:					
C3.1.1.1	Excavating all material situated within the following depth ranges below the surface level using conventional methods :					
(a)	0m to 3m	m ³		556		
C3.1.1.2	Extra over sub-item C3.1.1.1 for excavation in hard and boulder material , irrespective of depth	m ³		55,62		
C3.1.4	Excavation and disposal of material for subsoil drainage systems					
C3.1.4.1	Excavating in all material situated within the following depth ranges below the surface :					
(a)	0m to 3m	m ³		446,4		
C3.1.4.4	Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth	m ³		44,64		
C3.1.5	Impermeable backfilling to subsoil drainage system					
C3.1.5.1	Un-stabilised natural gravel obtained from approved sources on the site	m ³		480		
C3.1.6	Construction of banks and dykes:					
C3.1.6.1	Banks and dykes using conventional methods	m ³		200		
C3.1.7	Natural permeable material in subsoil drainage system (approved crushed stone):					
C3.1.7.2	Rock fill obtained from commercial sources	m ³	LI	450		
C3.1	TOTAL CARRIED FORWARD					

SCHEDULE A: ROADWORKS

CHAPTER C3.2

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C3.2	CULVERTS					
C3.2.1	Excavation for culvert structures:					
C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:					
(a)	0m to 1.5m	m ³		580		
(b)	Exceeding 1.5m and up to 3.0m	m ³		120		
C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth	m ³		70		
C3.2.2	Backfilling:					
C3.2.2.1	Using the excavated material	m ³	LI	100		
C3.2.2.2	Using imported selected material:					
(b)	From sources on site (Selected material)	m ³		700		
C3.2.2.3	Extra over sub-items C3.2.2.1 and C3.2.2.2 for soil cement backfilling					
(a)	With wet mixture of 5 % cement	m ³	LI	956		
C3.2.3.3	On Class C bedding					
(iii)	1200mm dia.Type 125S river crossing (2 & 7)	m	LI	19,2		
C3.2.3.5	Provision of skew ends of pipe culvert (600 mm dia and 900 dia Type SC 100D load ogee joints)	No		20		
C3.2.5	Rectangular culverts with prefabricated elements					
C3.2.5.1	Prefabricated portal culverts; wall and roof combination					
(i)	2400 mm x 1500 mm 75S (river crossing 4)	m		0		Rate Only
(ii)	2400mm x 2400mm 75S (River crossing 5 & 6)	m		0		Rate Only
(iii)	3600mm x 3600mm 75S (River crossing 1)	m		0		Rate Only
C3.2.5.2	Prefabricated floor slabs (size and type indicated)	m				
C3.2.6	Extra over items C3.2.3, C3.2.4 and C3.2.5 for constructing inclined culverts	m		0		Rate Only
C3.2.7	Cast in situ concrete and formwork:					
C3.2.7.2	In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (class 25/19) (installed at a standard depth of 1,0 m)	m ³		80,000		
C3.2.7.5	In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish (class 25/19)	m ³		20		
C3.2.7.6	Formwork of concrete under items C3.2.7.3 to 5 above (Class of finish indicated)					
(i)	Vertical formwork for F1 surface finish	m ²	LI	150,000		
(ii)	Vertical formwork for F2 surface finish	m ²	LI	50,000		
C3.2	TOTAL CARRIED FORWARD					

SCHEDULE A: ROADWORKS						CHAPTER C3.2
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
	TOTAL BROUGHT FORWARD					
C3.2.10	Reinforcement:					
C3.2.10.1	Mild steel bars	t		0,200		
C3.2.10.2	High-tensile steel bars	t		3		
C3.2.10.3	Welded steel fabric					
(i)	Mesh Ref 193	kg	LI	340,000		
(ii)	Mesh Ref 617	kg	LI	0		Rate Only
(iii)	Mesh Ref 655	kg	LI	0		Rate Only
C3.2.12	Demolition of concrete members or elements:					
C3.2.12.1	Full member or element (Reinforced concrete)	m ³		0		Rate Only
C3.2.12.2	Partial member or element (Plain concrete)	m ³		0		Rate Only
C3.2.13	Removing and re-laying existing culverts:					
C3.2.13.1	Removing and stacking existing culverts for re-use (600mm dia.Type SC75D load ogee joints on class B bedding)	m		0		Rate Only
C3.2.13.2	Removing and re-laying existing culverts without stacking (900mm dia.Type SC75D load ogee joints on class B bedding)	m	LI	0		Rate Only
C3.2.16	Brickwork (Engineering bricks):					
C3.2.16.2	230 mm thick	m ²	LI	20,000		
C3.2.19	Accessories:					
C3.2.19.2	Inlet grids or covers (as per SD0702/A including transitions and grid iron covers and frames complete)	No		4		
C3.2	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C3.3
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS					
C3.3.2	Concrete kerbing-channeling combination:					
C3.3.2.1	Prefabricated kerbing-channeling (cast insitu concrete channel class 25/19 on concrete bedding with reference to drawing)					
(a)	Figure 7A standard kerb on concrete bedding	m		0		Rate Only
C3.3.6	Concrete chutes (typical designs):					
C3.3.6.1	Prefabricated concrete chutes (300mm precast concrete chute)	m	LI	20		
C3.3.7	Cast in situ concrete chutes (measured by components):					
C3.3.7.1	Concrete (Class 25 / 19 concrete)	m ³	LI	20		
C3.3.7.2	Formwork (F1 surface finish)	m ²	LI	100		
C3.3.8	Linings for open drains:					
C3.3.8.1	Cast in situ concrete lining (class 25/19 concrete lining in V drains and side walk)	m ³	LI	0		Rate Only
C3.3.9	Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):					
C3.3.9.1	To sides with formwork on the internal face only	m ²	LI	0		Rate Only
C3.3.9.2	To sides with formwork on both internal and external faces (each face measured)	m ²	LI	0		Rate Only
C3.3.9.3	To ends of slabs	m ²		0		Rate Only
C3.3.10	Sealed joints in concrete and stone pitched linings of open drains (description of each type with reference to drawing)	m	LI	0		Rate Only
C3.3.11	Concrete screed or backfill below chutes (50mm class 15/19)	m ³		0		Rate Only
C3.3.12	Reinforcement:					
C3.3.12.3	Welded steel fabric Ref 193	kg		0		Rate Only
C3.3	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						#REF!
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C4.1	BORROW MATERIALS					
C4.1.4	Removing of the overburden					
C4.1.4.1	In borrow pits	m ³		200		
C4.1.5	Excavating of materials in the borrow pits and quarries, material obtained from					
C4.1.5.1	Soft excavation	m ³		1 108		
C4.1.15	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites					
C4.1.15.1	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites:					
(a)	Borrow pit	ha		0,520		
C4.1	TOTAL CARRIED FORWARD TO SUMMARY					R 0,00

SCHEDULE A: ROADWORKS

CHAPTER C4.2

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C4.2	CUT MATERIALS					
C4.2.1	Compiling and implementing M&U plans for the cuttings					
C4.2.1.2	Cuttings exceeding 10 000 m3 up to 20 000 m3	No		0		Rate Only
C4.2.3	Excavating of materials in cuttings, material obtained from					
C4.2.3.1	Soft excavation	m ³		0,000		Rate Only
C4.2.3.3	Boulder excavation class B	m ³		0		Rate Only
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from					
C4.2.9.1	Soft excavation, overburden and unsuitable material	m ³		0,000		Rate Only
C4.2.12	Finishing the side slopes					
C4.2.12.1	Cuttings:					
(a)	In soft material	m ²		0		Rate Only
(b)	In boulder material class A and B	m ²		0		Rate Only
(d)	In soft material using labour enhanced methods of construction	m ²		0		Rate Only
C4.2	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C4.4
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C4.4	COMMERCIAL MATERIALS					
C4.4.2	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers					
C4.4.1.2	Pavement layer material:					
(h)	Type G6 material	m ³		0		Rate Only
C4.4.4	Cementitious stabilising agents					
C4.4.4.1	Cement	t		0		Rate Only
C4.4.7	Sampling and material testing by a commercial laboratory for the stabilisation designs					
C4.4.7.1	Cost of sampling and material testing	Prov Sum		1	10 000,00	R 10 000,00
C4.4.7.2	Handling cost and profit in respect of item C4.4.7.1	%		10 000		
C4.4	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C5.1

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C5.1	ROADBED					
C5.1.1	Roadbed construction and compaction					
C5.1.1.2	Compaction of in-situ material to 93% of MDD	m ³		0		Rate Only
C5.1.2	Excavate material to spoil sites designated by the Employer					
C5.1.2.1	Excavate material to spoil from roadbed construction, material obtained from:					
(a)	Soft excavation	m ³		0		Rate only
(b)	Boulder excavation Class A	m ³		0		Rate only
(c)	Boulder excavation Class B	m ³		0		Rate only
(d)	Hard excavation (other than by blasting)	m ³		0		Rate only
(e)	Hard excavation (by blasting)	m ³		0		Rate only
C5.1.4	Removal of unsuitable material to spoil					
C5.1.4.1	In layer thicknesses of 200mm and less					
(a)	Stable material	m ³		0		Rate only
(b)	Unstable material	m ³		0		Rate only
C5.1.6	Roller-pass compaction					
C5.1.6.1	Grid roller	m ²		0		Rate only
C5.1.6.2	Pad foot vibratory rollers	m ²		0		Rate only
C5.1.6.3	Smooth drum vibratory rollers	m ²		0		Rate only
C5.1	TOTAL CARRIED FORWARD TO SUMMARY					R 0,00

SCHEDULE A: ROADWORKS

CHAPTER C5.2

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C5.2	FILL					
C5.2.2	Fill construction					
C5.2.2.1	Normal fill material in compacted layer thicknesses of 200 mm and less:					
(b)	Compacted to 93% MDD	m ³		0		Rate Only
(c)	Roller-pass compaction	m ²		0		Rate Only
C5.2.7	Construction of a trial section					
C5.2.7.1	Normal fill	m ³		0		Rate Only
C5.2.8	Breaking down oversize fill material on the road					
C5.2.8.1	By normal grid rolling as per clause A5.3.7.3b) (i) to (vii)	m ² -pass		0		Rate Only
C5.2.9	Removal of oversize material	m ³		0		Rate Only
C5.2.11	Finishing off fill slopes, medians and interchange areas					
C5.2.11.1	Fill slopes	m ²		0		Rate Only
C5.2	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C5.3

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C5.3	ROAD PAVEMENT LAYERS					
C5.3.2	Construction of pavement layers					
C5.3.2.1	Construction of layers using conventional construction methods:					
(l)	Upper subbase gravel layer (chemically stabilised) (200mm G6 material) compacted to 95% of MDD	m ³		0,0		Rate Only
C5.3	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C5.4

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C5.4	STABILISATION					
C5.4.2	Chemical stabilisation					
C5.4.2.1	Chemical stabilisation (150mm) of pavement layers (Upper subbase layer)	m ³		0		Rate Only
C5.4.5	Cementitious stabilisation agents for pavement layers					
C5.4.5.2	Addition of cementitious stabilisation agents (Ordinary Portland Cement) for pavement layers and spreading the agent using bags and labour enhancement methods.					
(a)	Cement (for pavement layer)	t	LI	0		Rate Only
C5.4.10	Provision and application of water for curing	kℓ		0		Rate Only
C5.4	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
	<u>SEGMENTED PAVING</u>					
	Construction of paving complete:					
	Type S-A blocks:					
	60 mm thick			0		Rate Only
	Cutting blocks to fit edge restraints:					
	Straight cutting			0		Rate Only
0	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C10.1
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENTS					
PSC10.1.29	BRP rumble humps and strips					
(a)	20 mm chocked with 10 mm (2900mm x 100mm strips)	m²	LI	0		Rate Only
(b)	14.0 mm chocked with 10 mm (2900mm x 100mm strips)	m²	LI	0		Rate Only
C10.1	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						CHAPTER C11.1
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION					
C11.1.2	Stone pitching (All bridges)					
C11.1.2.2	Grouted stone pitching with mortar	m ²	LI	0		Rate Only
C11.1.3	Riprap					
C11.1.3.1	Packed riprap ("30kg" and 200 mm)	m ³	LI	0		Rate Only
C11.1.3.2	Extra over item C11.1.3.1 for constructing packed riprap using labour enhanced construction methods (Maximum size of stone shall be 0,03 m3 or a maximum mass of 30 kg)	m ³		0		Rate Only
C11.1.5	Concrete pitching or paving					
C11.1.5.1	Cast in situ concrete pitching or paving (class of concrete and thickness of pitching or paving indicated)					
	(i) Segmental block paving, type S-A,80mm for bus bays	m ²	LI	0		Rate Only
	(ii) Segmental block paving,type S-A,60mm for side walks	m ²	LI	0		Rate Only
C11.1.6	Concrete edge beams (class 20/19 Mpa)	m ³	LI	0		Rate Only
C11.1	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C11.2
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C11.2	NON-STRUCTURAL GABIONS					
C11.2.1	Foundation trench excavation:					
C11.2.1.1	Excavating all material situated within the following depth ranges below the surface level					
(a)	0 m to 1,5 m	m ³	LI	15		
C11.2.1.2	Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	m ³	LI	5		
C11.2.2	Surface preparation for bedding the gabion boxes and mattresses	m ²	LI	75		
C11.2.3	Gabion boxes and mattresses:					
C11.2.3.1	Galvanized gabion boxes (1,5m x 1m x 1m, 2,7mm diameter mesh wire, 800x100mm mesh size, incl. stone packing)	m ³	LI	15		
C11.2.3.3	Galvanized gabion mattresses (6m x2m x0.30m, 800x100mm mesh size, 1m diaphragm spacing)	m ³	LI	0		Rate Only
C11.2.4	Geotextile (Bidim U14 or Silmilar)	m ²	LI	24		
C11.2 TOTAL CARRIED FORWARD TO SUMMARY						

SCHEDULE A: ROADWORKS						CHAPTER C11.4
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C11.4	ROAD RESTRAINT SYSTEMS CABLE TYPE					
C11.4.1	Erecting of guardrails at 3,81 m spacing					
C11.4.1.1	Complete galvanized system compliant to SANS 1350:					
(a)	On steel posts (Drawing reference)	m	LI	20		
(b)	On steel posts used at specific locations (Drawing reference)	m	LI	0		Rate Only
C11.4.1.2	Terminal sections for 3,81 guardrails comprising of:					
(a)	End wings to SANS 1350	No	LI	0		Rate Only
(e)	End treatments where double guardrail sections are specified (Drawing reference)	No	LI	0		Rate Only
C11.4.5	Additional guardrail posts for 3,81 m systems:					
C11.4.5.1	Steel plates	No	LI	0		Rate Only
C11.4.6	Reflective plates					
C11.4.6.1	Steel plates	No	LI	0		Rate Only
C11.4	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

CHAPTER

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C11.6	ROAD SIGNS					
C11.6.1	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from:					
C11.6.1.3	Prepainted galvanized steel plate:					
(a)	Area 0 to 0,5 m ²	m ²	LI	2		
C11.6.2	Extra over on item C11.6.1 for using:					
C11.6.2.1	Background of retro-reflective material:					
(b)	Class III	m ²	LI	1		
C11.6.2.2	Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:					
(a)	Class III	m ²	LI	1		
C11.6.3	Road sign supports (overhead road sign structures excluded):					
C11.6.3.1	Steel tubing					
(i)	Steel tubing (76mm diameter D-section Gavanised, 2mm wall)	t	LI	0,35		
C11.6.5	Excavation and backfilling for road sign supports (not applicable to kilometre posts)					
C11.6.5.1	Excavating soft material and backfilling	m ³	LI	1		
C11.6.8	Danger plates at culverts/structures					
C11.6.8.1	Size 150 x 900 mm (steel post type and retro-reflective)	No	LI	4		
C11.6	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS						CHAPTER C11.8
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)						
ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C11.8	LANDSCAPING AND PLANTING PLANTS					
C11.8.1	Trimming:					
C11.8.1.1	Machine trimming	m ²		2 000		
C11.8.1.2	Hand trimming	m ²		100		
C11.8.2	Trimming using machines for trimming or shaping (alternative to subitem C11.8.1.1):					
C11.8.2.1	Bulldozer	h		0		Rate Only
C11.8.2.2	Motor grader	h		0		Rate Only
C11.8	TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE A: ROADWORKS

CHAPTER C20.1

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)

ITEM NO	DESCRIPTION	UNIT	LI	QUANTITY	RATE	AMOUNT
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP					
C20.1.2	Special tests requested by the Engineer					
C20.1.2.2	Employer's contribution to other special tests					
(a)	Other special tests requested by the engineer	Prime Cost		1	10 000,00	R 10 000,00
(a.i)	Handling costs and profit in respect of item C20.1.2.2(a)	%		R 10 000,00		
C20.1	TOTAL CARRIED FORWARD TO SUMMARY					

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)			
SCHEDULE A: ROADWORKS - SUMMARY			
CHAPTER	DESCRIPTION	FROM PAGE	AMOUNT
C1.2	GENERAL REQUIREMENTS AND PAYMENT		R -
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS		R -
C1.4	FACILITIES FOR THE ENGINEER		R -
PSC1.5	ACCOMMODATION OF TRAFFIC		R -
C1.6	CLEARING AND GRUBBING		R -
C1.7	LOADING AND HAULING		R -
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES		R -
C3.1	DRAINS		R -
C3.2	CULVERTS		R -
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS		R -
C4.1	BORROW MATERIALS		R -
C4.2	CUT MATERIALS		R -
C4.4	COMMERCIAL MATERIALS		R -
C5.1	ROADBED		R -
C5.2	FILL		R -
C5.3	ROAD PAVEMENT LAYERS		R -
C5.4	STABILISATION		R -
0	0		R -
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENTS		R -
C11.1	PITCHING, STONEMWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION		R -
C11.2	NON-STRUCTURAL GABIONS		R -
C11.4	ROAD RESTRAINT SYSTEMS CABLE TYPE		R -
C11.6	ROAD SIGNS		R -
C11.8	LANDSCAPING AND PLANTING PLANTS		R -
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP		R -
SUBTOTAL CARRIED FORWARD			R -

Construction of Pedestrian Bridges in Wolvenkop (Ward 11)		
C2.3 SUMMARY OF BILL OF QUANTITIES		
SCHEDULE	FROM PAGE	AMOUNT
Construction of Pedestrian Bridges in Wolvenkop (Ward 11)		
SUBTOTAL 1		
CONTINGENCIES (0.5% of Subtotal 1)		
SUBTOTAL 2		
CONTRACT PRICE ADJUSTMENT AND RISE & FALL (0.0% of Subtotal 2)		
SUBTOTAL 3		
VAT (15% of Subtotal 3)		
TOTAL CARRIED FORWARD TO FORM OF OFFER		

Signed on behalf of the Tenderer: (Signature)

Date:

Tenderer's Name: (Company Name)

DISCLAIMER

Kindly note that the responsibility lies with Tenderer to check the tender document and the tender addenda (if issued) to verify that all the information is correct and all changes have been incorporated as no claims will be entertained in this regard afterwards. Accordingly, we confirm that the hard copies of the original tender document and the tender addenda are to be regarded to contain the correct items and quantities.