

CONSTRUCTION OF CULVERTS IN ALL 41 WARDS WITHIN THULAMELA MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FOR THREE(3) YEARS

NB: SERVICE PROVIDERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK. INSERTED RATES MUST BE INCLUSIVE OF SUPPLY, DELIVERY AND LABOUR

SECTION 1200

ITEM	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12.00		GENERAL REQUIREMENTS AND PROVISIONS				
12.01		Excavation Excavating material within the following depth ranges below ground level for the exposing of/ or searching for services (a) 0m to 2m				
		(i) Soft	m³	N/A	N/A	N/A
		(ii) Hard Material	m³	N/A	N/A	N/A
		(b) extra over item B12.01 for excavation by means of hand tools such as picks, crowbars and pneumatic tools or mechanical breakers in close vicinity of services where no machine excavation is permitted:				
		(i) Soft	m³	N/A	N/A	N/A
		(ii) Hard Material	m³	N/A	N/A	N/A
12.02		Backfilling (a) Using the excavated material	m³	N/A	N/A	N/A
		(b) Using Imported Material	m³	N/A	N/A	N/A
12.03		(a) Allow provisional sum for existing services to be relocated and/or protected as ordered by the engineer,	Prov sum	N/A	N/A	N/A
		(b) Handling costs and profit in respect of sub-item B12,03 (a) above	%	N/A	N/A	N/A
12.04		Provision for Community Liaison Officer and Project Steering Committee				
		(a) Provisional sum for the payment of the Community Liaison Officer and Project Steering Committee	Prov sum	3.00	R 6,500.00	R 19,500.00
		(b) Handling costs and profit in respect of sub-item 12.04 (a)	%	19,500.00	10%	R 1,950.00
12.05		OHS ACT 1993: Health and Safety				
		(a) Contractors initial obligations in respect of the OHS Act and construction regulations	Lump sum	1.00		
		(b) Contractor's time related obligations in respect of the OHS Act and construction regulations	Month	3.00		
		(c) Submission of the health and safety plan	Lump sum	1.00		

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SECTION 1500

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
15.00		ACCOMODATION OF TRAFFIC				
15.01		Accommodating traffic and maintaining temporary deviations	km	1.00		
15.02		Temporary traffic control facilities				
		(a) Shaping of temporary deviations	km	N/A	N/A	N/A
		(b) Cut and borrow to fill	m³	N/A	N/A	N/A
		(c) Cut to spoil	m³	N/A	N/A	N/A
15.03	LI	Temporary traffic-control facilities				
		(a) Flagmen	man-day	N/A	N/A	N/A
		(b) Portable STOP and GO-RY signs	No	N/A		Rate Only
		(d) Amber flicker lights	No	N/A	N/A	N/A
		(e) Road signs, R- and TR-series, (1200mm dia.)	No	N/A	N/A	N/A
		(f) Road signs, TW-series, (1500mm sides)	No	N/A	N/A	N/A
		(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	m²	N/A	N/A	N/A
		(h) Delineators (TW 401 and TW402):				
		(i) Single (TW 401 and TW402) (250mm x 1000mm)	No	N/A		Rate Only
		(ii) Mounted back to back (TW 401 and TW402) (250mm x 1000mm)				
		(1) Arrows pointing same direction	No	N/A	N/A	N/A
		(2) Arrows pointing opposite direction	No	N/A	N/A	N/A
		(i) Moveable barricade/road sign combination	No	N/A	N/A	N/A
		(m) Two-way communication devices	No	N/A	N/A	N/A
		(n) Other traffic control measures ordered by the engineer	No	N/A	N/A	N/A
		(i) Provision of other traffic control measures	Prov sum	N/A	N/A	N/A
		(ii) Handling costs and profit in respect of sub-item B15.03(n)(i)	%	N/A	N/A	N/A
15.04		Relocation of traffic-control facilities	L/sum	N/A		Rate Only
15.05		Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				

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Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
15.07		(a) Temporary deviations	m³	0.00		
		(b) Existing gravel shoulders	m³	N/A	N/A	N/A
		Blading by road grader of:				
15.08		(a) Temporary deviations	km-pass	N/A	N/A	N/A
		(b) Existing roads used as temporary deviations	km-pass	N/A		Rate Only
15.10		Repairs, alterations and/or additions to existing roads used as temporary deviations	Prov sum	N/A	N/A	N/A
15.11		Accommodation of traffic where the road is constructed in half-widths	km	N/A	N/A	N/A
15.11		Traffic control devices				
		(a) Providing signalised traffic control devices	No	N/A	N/A	N/A
		(b) Operating signalised traffic control devices	month sets	N/A	N/A	N/A
15.14		Amber flashing lights mounted on signs	No	N/A	N/A	N/A
15.16		Provision of traffic safety				
		(c) Traffic Satety Officer	month	N/A	N/A	N/A
		(d) Traffic Safety Vehicle (s)	month	N/A	N/A	N/A
15.16		Flashing Illuminated Arrow Board	No	N/A	N/A	N/A
15.17		Variable Message Signs mounted on trailers	No - Month	N/A	N/A	N/A

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Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
17.00		CLEARING AND GRUBBING				
17.01		Clearing and grubbing				
		(a) Normal Areas				
		(i) Within the road reserve	ha	1.00		
		(ii) In borrow pits	ha	1.00		
		(b) Existing fill embankments with slopes steeper than 1:4	ha	N/A	N/A	N/A
17.02		Removal and grubbing of large trees and tree stumps				
		(a) Girth exceeding 1m up to and including 2m	No	N/A	N/A	N/A
		(b) Girth exceeding 2m up to and including 3m	No	N/A	N/A	N/A
		(c) Girth larger than 3m up to and including 4m	No	N/A	N/A	N/A
17.03		Re-clearing of surfaces (on the written instructions of the Engineer only)	ha	N/A	N/A	N/A
17.04		Clearing nad grubbing at inlets and outlets of hydraulic structures	m2	N/A	N/A	N/A
17.05		Cleaning out of hydraulic structures				
		(a) Pipes with an internal diameter up to and including 750mm	m³	N/A		Rate Only
		(b) Pipes with an internal diameter exceeding 750mm	m³	N/A		Rate Only
		(c) Box culverts up to and including 1,5m vertical dimension	m³	N/A		Rate Only
		(d) Box culverts exceeding 1,5m vertical dimension	m³	N/A		Rate Only

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SECTION 2100

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
21.00		DRAINS				
21.01		Excavation for open drains: (a) Excavating soft material situated within the following depth ranges below the surface level:				
	LI	(1) 0 m up to 1,5 m	m ³	1.00		
		(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	1.00		
21.03		Excavation for subsoil drainage systems: (a) Excavating soft material situated within the following depth ranges below the surface level:				
	LI	(1) 0 m up to 1,5 m	m ³	N/A	N/A	N/A
		(b) Extra over subitem 21.03(a) for excavation in hard material irrespective of depth	m ³	N/A	N/A	N/A
	LI	(c) Extra-over item 21.03(a) for excavating through stabilised layers of existing pavement	m ³	N/A	N/A	N/A
21.04	LI	Impermeable backfilling to subsoil drainage systems (b) G5 stabilised with 4% stabilising agent	m ³	N/A	N/A	N/A
21.05		Banks and dykes	m ³	N/A	N/A	N/A
21.06		Natural permeable material in subsoil drainage systems (washed crushed stone): (b) Crushed stone obtained from commercial sources				
		(i) Fine Grade	m ³	N/A	N/A	N/A
		(ii) Coarse-Grade	m ³	N/A	N/A	N/A
21.07		Natural permeable material in subsoil drainage systems (washed sand): (a) Sand obtained from approved sources on the site				
		(i) Coarse Grade sand	m ³	N/A	N/A	N/A
		(b) Sand from commercial sources				
		(i) Coarse Grade sand	m ³	N/A	N/A	N/A
21.08		Pipes in subsoil drainage systems: (b) Unplasticised PVC pipes and fittings, normal duty complete with couplings				
	LI	(iii) 150 mm internal dia. perforated or slotted	m	N/A	N/A	N/A

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SECTION 2100

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
21.09	LI	Polyethylene sheeting 0.25 mm thick, or similar, approved material, for lining subsoil drainage systems	m ²	N/A	N/A	N/A
21.10		Synthetic-fibre filter fabric				
	LI	(a) Grade A3	m ²	N/A	N/A	N/A
21.12		Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
		(a) Outlet structures	No	N/A	N/A	N/A
		(d) Cleaning eyes	No	N/A	N/A	N/A
21.13		Concrete caps for subsoil drain pipes	No	N/A	N/A	N/A
21.15		Overhaul for material hauled in excess of 1,0 km free-haul (normal overhaul)	m ³ -km	N/A	N/A	N/A
21.17	LI	Test flushing of pipe subsoil drains	No	N/A	N/A	N/A
21.19	LI	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density	m ³	N/A	N/A	N/A
21.20	LI	Exposing of existing subsoil drains	m ³	N/A	N/A	N/A
21.21	LI	Clearing of subsoil drains	m	N/A	N/A	N/A
21.22		Subsoil outlet marker board	No	N/A	N/A	N/A
21.23	LI	Break into existing drainage structures and install subsoil drain pipe	No	N/A	N/A	N/A

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SECTION 2200

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
22.00		PREFABRICATED CULVERTS				
22.01		Excavation				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
	LI	(i) 0 m up to 1.5 m	m ³	1.00		
		(ii) Exceeding 1,5 m and up to 3,0 m	m ³	1.00		
		(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	1.00		
		(c) Extra-over sub-item 22.01(a) for excavation by hand	m ³	1.00		Rate Only
22.02		Backfilling:				
	LI	(a) Using the excavated material	m ³	1.00		
	LI	(b) Using imported selected material	m ³	1.00		
22.03		Concrete pipe culverts:				
		(b) On class B bedding				
	LI	(1) 600mm dia. Type 100D	m	1.00		
	LI	(2) 600mm dia. Type 75D	m	1.00		
	LI	(3) 750mm dia. Type 100D	m	1.00		
	LI	(4) 750mm dia. Type 75D	m	1.00		
	LI	(5) 900mm dai Type 100D	m	1.00		
	LI	(6) 900mm dai Type 75D	m	1.00		
	LI	(7) 1200mm dai Type 100D	m	1.00		
	LI	(8) 1200mm dai Type 75D	m	1.00		
22.05		Portal and rectangular culverts:				
		(b) Without prefabricated floor slabs				
		(i) 900mm x 900mm Type S75	m	1.00		
		(ii) 1200mm x 1200mm Type S75	m	1.00		
		(iii) 1500mm x 900mm Type S75	m	1.00		
		(iv) 1500mm x 1200mm Type S75	m	1.00		
		(v) 1500mm x 1500mm Type S75	m	1.00		
		(vi) 1800mm x 1200mm Type S100	m	1.00		
		(vii) 1800mm x 1500mm Type S100	m	1.00		

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SECTION 2200

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
22.07		Cast in situ concrete and formwork (b) In floor slabs for portal or rectangular culverts 150mm thickness				
		(1) Class 30/19	m ³	1.00		
	LI	(2) Class 25/19	m ³	1.00		
		(c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish and formwork				
		(i) Class 25/19	m ³	1.00		
	LI	(d) Formwork of concrete under subitem 22.07(c) above class u2 finish	m ²	1.00		
22.10		Steel reinforcement: (b) High-tensile steel bars	t	N/A	N/A	N/A
		(c) Welded steel mesh REF 395	kg	1.00		
22.12		Removing existing concrete (a) Plain concrete	m ³	1.00		Rate Only
		(b) Reinforced concrete	m ³	1.00		Rate Only
22.17		Manholes, catchpits, precast inlet and outlet structures complete (a) Manholes				
		(ii) 1,0 m to 1,5 m deep	No	N/A	N/A	N/A
		(b) Catchpits				
		(1) Type 1K				
		(ii) 1,0 m to 1,5 m deep	No	N/A	N/A	N/A
		(e) Extra over or less than subitem 22.17(b) for variations in the depths of catchpits from the standard depth designated for tendering purposes (standard depth and type of catchpit indicated on standard details drawing number: 16746_.....)	m	N/A	N/A	N/A
		(d) Extra over or less than subitem 22.17(a) for variations in the depths of manholes from the standard depth designated for tendering purposes (standard depth and type of manhole indicated on standard details drawing number: 16746_.....)	m	N/A	N/A	N/A
22.18		Brickwork (b) 230mm thick wall with SABS approved brickforce laid at 300mm height interval	m ²	1.0		
22.19		Plaster to non-face brick	m ²	1.0		

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
22.23		Service ducts (c) Installation (HPDE pipes and 300mm diameter) (c) Installation (HPDE pipes and 110mm diameter)	 m m	 N/A N/A	 N/A N/A	 N/A N/A
22.29		Breaking into existing drainage structures and building in pipes or culverts of the following size (pipe diameter 600mm)	No	N/A	N/A	N/A

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SECTION 3300

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
33.00	LI	MASS EARTHWORKS				
33.01		Cut and borrow to fill, including free-haul up to 1.0km (a) Gravel material in compacted layer thickness of 200 mm and less:				
		(i) Compacted to 90% of modified AASHTO density	m ³	1.00		
		(c) Rock fill (as specified in subclause 3209(c))	m ³	1.00		
33.03		Extra over item 33.01 for excavating and breaking down material in:				
		(a) Intermediate excavation	m ³	1.00		Rate Only
		(b) Hard excavation	m ³	1.00		Rate Only
		(c) Boulder excavation class A	m ³	N/A	N/A	N/A
		(d) Boulder excavation class B	m ³	N/A	N/A	N/A
33.04		Cut to spoil, including free-haul up to 1,0 km. Material obtained from:				
		(a) Soft excavation	m ³	1.00		
		(b) Intermediate excavation	m ³	1.00		Rate Only
		(c) Hard excavation	m ³	1.00		Rate Only
		(d) Boulder excavation class A	m ³	N/A	N/A	N/A
		(e) Boulder excavation class B	m ³	N/A	N/A	N/A
33.05		Overbreak in hard and boulder class A excavation	m ²	N/A	N/A	N/A
33.06		Variations in the number of roller passes (applicable to subsubitems 33.01(a)(3) and 33.01(b)(3) and item 33.11):				
		(a) Vibratory rollers	m ² -pass	N/A	N/A	N/A
		(b) Oscillatory rollers	m ² -pass	N/A	N/A	N/A
		(c) Heavy grid rollers	m ² -pass	N/A	N/A	N/A
		(d) Tamping rollers	m ² -pass	N/A	N/A	N/A
33.07		Removal of unsuitable material (including free-haul of 1.0 km):				
		(a) In layer thicknesses of 300 mm and less:				
		(i) Stable material	m ³	N/A	N/A	N/A

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SECTION 3300

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
		(ii) Unstable material	m ³	N/A	N/A	N/A
		(b) In layer thicknesses exceeding 300mm				
		(ii) Unstable material	m ³	N/A	N/A	N/A
33.09		Material bladed to windrow	m ³	N/A	N/A	N/A
33.10		Roadbed preparation and the compaction of material				
		(a) Compaction to 90% of modified AASHTO density	m ³	1.00		
		(b) Compaction to 93% of modified AASHTO density	m ³	N/A	N/A	N/A
33.12		In situ treatment of roadbed:				
		(a) In situ treatment by ripping	m ³	1.00		
		(b) In situ treatment by blasting	m ³	N/A	N/A	N/A
33.13		Finishing-off cut and fill slopes, medians and interchange areas:				
		(a) Cut slopes	m ²	N/A	N/A	N/A
		(b) Fill slopes	m ²	N/A	N/A	N/A
33.17		Extra over item 33.04 for spoiling material excavated from benches constructed for widening existing fills	m ³	N/A	N/A	N/A
33/16.02		Overhaul on material hauled in excess of 1.0 km (ordinary overhaul)	km.m ³	N/A	N/A	N/A
33.20		Fill constructed with material obtained from commercial sources or sources provided by the contractor, including all haul				
		(a) Gravel material in compacted layer thicknesses of 200 mm and less:				
		(b) Rock fill	m ³	1.00		
		(c) Rock protection at the toes of fills	m ³	N/A	N/A	N/A
		(d) Pioneer layer (as specified in subclause 3307(c))	m ³	N/A	N/A	N/A

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SECTION 3300

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
33.21		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 thicknesses of 200 mm and less: (i) Compacted to 90% of modified AASHTO density (ii) Compacted to 93% of modified AASHTO density (iii) Eight-roller-passes compaction	 m³ m³ m³	 1.00 N/A N/A	 N/A N/A	 N/A N/A
33.22		Fill constructed with gravel hauled from designated borrow pits or from designated stockpiles (not made with material excavated on this project), including free haul up to 1.0 km (a) Gravel material in compacted layer thicknesses of 200 mm and less: (i) Compacted to 90% of modified AASHTO density (ii) Compacted to 93% of modified AASHTO density (iii) Eight-roller-passes compaction	 m³ m³ m³	 1.00 N/A N/A	 N/A N/A	 N/A N/A

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Number	LIC	Item Description	Unit	Quantity	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 10 km (a) Gravel selected layer compacted to: (i) 93% of modified AASHTO density (150mm layer thickness) (c) Gravel subbase (unstabilized gravel) compacted to: (i) 95% of modified AASHTO density (150 mm compacted layer thickness) (d) Gravel subbase (chemically stabilized material) compacted to: (i) 95% of modified AASHTO density (150mm layer thickness) (e) Gravel base (unstabilized gravel) compacted to: (i) 95% of modified AASHTO density (150mm compacted layer thickness) (f) Gravel base (stabilized gravel) compacted to: (ii) 98% of modified AASHTO density (150mm layer thickness) (h) Gravel wearing course coompacted to: (ii) 98% of modified AASHTO density (150mm compacted layer thickness) stabilized with Ecobond and SS60	m³ m³ m³ m³ m³ m³	1.00 1.00 N/A 1.00 N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A
34/16.02		Overhaul on material hauled in excess of 1.0 km (ordinary overhaul)	km.m³	1.00		

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SECTION 5600

Number	LIC	Item Description	Unit	Quantity	RATE	AMOUNT
56.00		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 1,6mm thick or approved equivalent):				
		(i) Area not exceeding 2 m ²	m ²	N/A	N/A	N/A
		(ii) Area exceeding 2 m ² but not 10 m ²	m ²	N/A	N/A	N/A
		(iii) Area exceeding 10 m ²	m ²	N/A	N/A	N/A
56.02		Extra over item 56.01 for using:				
		(a) Background of retro-reflective material of:				
		(ii) Class II	m ²	N/A	N/A	N/A
		(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
		(i) Class II	m ²	N/A	N/A	N/A
56.03		Road sign supports (overhead road sign structures excluded):				
		(b) Steel tubing	t	N/A	N/A	N/A
56.04		Kilometre posts				
	LI	(a) Concrete	No	N/A	N/A	N/A
56.05	LI	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	1.00		
56.06	LI	Extra over item 56.05 for cement-treated soil backfill	m ³	1.00		
56.07		Extra over item 56.05 for rock excavation	m ³	1.00		Rate Only
56.10		Danger plates at culverts/structures				
	LI	a) Type A stormwater culverts (150mm x 600mm)	No	1.00		
	LI	b) Type B at Bridges (200mm x 800mm)	No	1.00		
56.11		Replace marker boards on existing kilometre posts	No	N/A	N/A	N/A
56.12		Flickering warning directional chevrons	No	N/A	N/A	N/A

NB: SERVICE PROVIDERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK. INSERTED RATES MUST BE INCLUSIVE OF SUPPLY, DELIVERY AND LABOUR

[illegible]

CONSTRUCTION OF CULVERTS IN ALL 41 WARDS WITHIN THULAMELA MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FOR THREE(3) YEARS

NB: SERVICE PROVIDERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK. INSERTED RATES MUST BE INCLUSIVE OF SUPPLY, DELIVERY AND LABOUR

Negotiating a fair market related price: A process of negotiating with the qualifying bidders after the competitive bidding process will be considered for bids where more than one (1) service provider is appointed. This may include amongst others the following principles:

- (a) Delegations threshold values for negotiating by the accounting officer
- (b) Negotiating may not allow any preferred tenderer a second or unfair opportunity
- (c) Is not to the detriment of any other tenderer
- (d) Does not lead to higher price than the bid as submitted.

The agreed rates will be adjusted on an annual basis in line with CPI inflation.

PLEASE NOTE THAT ALLOCATION OF WORK WILL BE DONE ON A ROTATIONAL BASIS.