

BLOUBERG MUNICIPALITY
CONTRACT NO:BM25/24/25
CONSTRUCTION OF BLOUBERG STORMWATER RETENTION PONDS(AVON)

SECTION 1200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1200	<u>GENERAL REQUIREMENTS AND PROVISIONS</u>				
B12.01	(i) Payment of community liason officer and Sefety Rep	-	Prov	Sum	R 44,000.00
	(ii) Payment for PSC sittings	-	Prov	Sum	R 6,000.00
	(iii) Payment for Student Training	-	Prov	Sum	R 22,000.00
	(ii) Handling costs and profit in respect of B12.01(i) above	%	R 72,000.00		
B12.02	Structured Training (as specified in part D of the project specification)				
	(a) Generic Skills and Entreprenueral Skills	-	Prov	Sum	R 50,000.00
	(c) Handling costs and profit in respect of sub-items (a) and (b) above	%	R 50,000.00		
	(d) Provision of training venue (only if required)	-	Lump	Sum	
PS12.05	Protection, removal, relocation and replacement of Utility services.				
	(a) Utility services				
	(i) Protection, removal, relocation and replacement of utility services.		Prov	Sum	100,000.00
	(ii) Handling costs and profit in respect of sub-items (a) (i) above	%	R 100,000.00		
B12/C1.1	Contractor's initial obligation in respect of the OHS Act and Construction Regulations	L/Sum	1.00		
B12/C1.2	Contractor's Time related Obligations in respect of the OHS Act and Construction Regulations	Month	4.00		
B12/C1.3	Submission of Health and Safety File	L/Sum	1.00		
B12/C1.4	Provisional Sum for payment of specialised services Geotechnical Investigation, EIA, Survey, WULA Handling cost and profit in respect of sub item (i) above				
			Prov	Sum	130,000.00
		%	R 130,000.00		
1200	TOTAL CARRIED TO SUMMARY				

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SECTION 1300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1300	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u> 13.01 The Contractor's general obligations: (a) Fixed obligations (b) Value-related obligations (c) Time-related obligations	-	lump	sum	
1300	TOTAL CARRIED TO SUMMARY				

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				SECTION 1400	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1400	<u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u>				
14.01	Office and laboratory accommodation:				
	(a) Offices (interior floor space only)	m ²	40		
	(e) Ablution units x 2	m ²	10		
14.02	Office and laboratory furniture:				
	(a) Chairs	number	15		
	(d) Desks, complete with drawers and locks	number	2		
	(f) Conference tables	number	1		
14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points	number	2		
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	number	4		
	(v) Single incandescent-light fittings complete with 100 watt globes	number	4		
	(vi) Wash-hand basins complete with taps and drains	number	1		
	(x) Fire extinguishers, 9,0kg all purpose dry powder type, complete, mounted on wall with brackets	number	2		
	(xi) Air-conditioning units with, 2,2 kW minimum capacity, mounted and with own power connection	number	2		
	(xiv) General-purpose steel cupboards with shelves	number	2		
	(xv) Steel filing cabinets with drawers	number	2		
1400	TOTAL CARRIED FORWARD				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
14.04	Car-ports	number	4		
14.07	Services				
	(a) Services at offices and laboratories:				
	(i) Fixed costs	-	Lump	Sum	
	(ii) Running costs	month			
14.08	Rented, hotel and other accommodation:				
	(a) Provisional Sum for providing rented housing, hotel or other accommodation as described in Subsubclause 1403(c)(ii)	-	Prov	Sum	R 32,000.00
	(b) Handling costs and profit in respect of subitem 14.07(a)	%	R 32,000.00		
B14.11	Telecommunications System				
	(a) Supply (1)Cellular Phone	-	Prov	Sum	R 10,000.00
	(b) Costs of calls by Engineer	-	Prov	Sum	R 7,000.00
	(c) Handling costs and profit in respect of subsubitem 14.11(a), (c) above	%	R 17,000.00		
	(d) Provision of Labtop for the use of Engineer.	-	Prov	Sum	R 25,000.00
	Handling costs and profit in respect of subsubitem 14.11(a), (c) above	%	R 25,000.00		
1400	TOTAL CARRIED TO SUMMARY				

C2.2.5

C2.2.4

BLOUBERG MUNICIPALITY
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SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1500	ACCOMMODATION OF TRAFFIC				
15.01	Accommodating traffic and maintaining temporary deviations	km	0.50		
15.02	Earthworks for temporary deviations:				
	(a) Shaping of temporary deviations	km	0.50		
	(b) Cut and borrow to fill	m ³	25.00		
	(c) Cut to spoil	m ³	25.00		
B15.03	Temporary traffic-control facilities:				
	(a) Flagmen	man-day	160.00		
	(b) Portable STOP and GO-RY signs	number	2.00		
	(e) Road signs, R- and TR-series, (size indicated)	number	2.00		
	(f) Road signs, TW-series, (size indicated)	number	2.00		
	(g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades)	m ²	2.00		
	(h) Delineators (DTG50J):				
	(i) Single	number	15.00		
	(ii) Mounted back to back	number	2.00		
	(j) Traffic cones 600mm	number	10.00		
	(l) Movable barriers (type indicated)	No	2.00		
	(n) Safety jackets and hats	No	2.00		
15.05	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				
	(a) Temporary deviations	m ³	100.00		
15.06	Watering of temporary deviations	kilolitre	500.00		
1500	TOTAL CARRIED TO SUMMARY				

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SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward					
15.07	Blading by road grader of:				
	(a) Temporary deviations	km-pass	0.5		
	(b) Existing roads used as temporary deviations	km-pass	0.5		
15.08	Repairs, alterations and/or additions to existing roads used as temporary deviations	-	Prov	Sum	Rate Only
1500	TOTAL CARRIED TO SUMMARY				

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SECTION 1700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	<u>CLEARING AND GRUBBING</u>				
17.01	Clearing and grubbing	ha	2.5		
1700	TOTAL CARRIED TO SUMMARY				R 0.00

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SECTION 1800

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1800	<u>DAYWORKS</u>				
B18.01	Labourers:				
	(i) Unskilled	h	50		Rate Only
	(ii) Semi-skilled	h	50		Rate Only
	(iii) Skilled	h	50		Rate Only
B18.02	Foreman	h	50		Rate Only
B18.03	Tipper trucks:				
	(i) 3 - 5 ton	h	50		Rate Only
	(ii) 5.1 - 10 ton	h	50		Rate Only
B18.04	Loader (0,5m³)	h	50		Rate Only
B18.05	Grader (CAT 140G or similar)	h	50		Rate Only
B18.06	LDV	km	50		Rate Only
B18.07	Compaction rollers:				
	(i) Vibratory roller	h	50		Rate Only
	(ii) Tamping roller	h	50		Rate Only
	(iii) Grid roller	h	50		Rate Only
B18.08	Hand controlled compactors				
	(i) Pedestrian roller (Bomag BW90)	h	50		Rate Only
	(ii) Vibratory plate	h	50		Rate Only
	(iii) Rammers	h	50		Rate Only
B18.09	Water truck (min. 10000litre)	h	50		Rate Only
B18.10	Dozer (D7 or similar)	h	20		Rate Only
1800	TOTAL CARRIED TO SUMMARY				Rate Only

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2200	<u>PREFABRICATED CULVERTS</u>				
22.01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	180		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	50		
22.02	Backfilling:				
	(a) Using the excavated material	m ³	120		
	(c) Extra over subitems 22.02(a) and (b) for soil cement backfilling containing 2% cement	m ³	15		
22.05	Portal and rectangular culverts:				
	Without prefabricated floor slabs:				
	(a) 450 mm x 450 mm, class 75S	m	16		
	(b) 600 mm x 600 mm, class 75S	m	16		
	(c) 900 mm x 1200 mm, class 75S	m	16		
	(d) 1000 mm x 2600 mm, class 75S	Rate Only	Rate Only		Rate Only
	(e) 1000 mm x 2800 mm, class 75S	Rate Only	Rate Only		Rate Only
2200	TOTAL CARRIED FORWARD				

CONSTRUCTION OF BLOUBERG STORMWATER RETENTION PONDS(AVON)

SECTION 2200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
B22.07	Cast in situ concrete and formwork:				
	(b) (i) In floor slabs for portal or rectangular culverts including formwork, joints and class U2 surface finish (class 25/19)	m ³	5		
	(ii) Between culvert units (class 15/19)	m ³	5		
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, trust and anchor blocks, including formwork and including class U2 surface finish.				
	(i) Class 25/19 concrete	m ³	3		
	(d) formwork of concrete under subitem 22,07(c) above				
	(i) Class F1 surface finish	m ²	30		
22.17	Steel reinforcement				
	(a) Mild steel bars	t	0.20		
	(b) High-tensile steel bars	t	0.20		
	(c) Welded steel fabric ref 195	kg	200.00		
22.18	Brickwork				
	(a) 115 mm thick	m ²	20		
	(b) 230 mm thick	m ²	5		
22.19	Plaster	m ²	20		
22.20	Benching	m ²	5		
22.23	Service ducts				
	(a) Ordinary pipes				
	(b) Unplasticised PVC Pipes				
	(i) 110mm diameter	m	10		
	(ii) 150mm diameter	m	10		
PS22.23	(c) Encasing of service duct in 1:12 cement soil mixture (75mm min. all round)	m	10		
PS22.25	Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement, existing structures demolished and removed to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance.	m ³ -km	25		
22.26	Hand excavation to determine the positions of existing services.	m ³	10		
2200	TOTAL CARRIED TO SUMMARY				

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SECTION 2100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2100	<u>DRAINS</u>				
LI 21.01	Excavation for open earth drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	594		
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	178		
LI 21.02	Clearing,shaping and compacting to 93% of modified AASHTO density of open earth drains	m ³	3,300		
21.05	Construction and shaping of earth berms 93% of modified AASHTO densit in 150mm layers	m ³	1,500		
21.19	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density.	m ³	150		
2100	TOTAL CARRIED TO SUMMARY				

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SECTION 2300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2300	<p><u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u></p> <p>23.07 Trimming of excavations for concrete-lined opened drains:</p> <p>(a) In soft material</p> <p>(b) In hard material</p> <p>23.08 Concrete lining for open drains:</p> <p>(a) Cast insitu concrete lining (V and trapezoidal drain) including formwork.</p> <p>(b) Class U2 surface finish to cast in situ concrete (trapezoidal drain)</p> <p>23.10 Sealed joints in concrete linings of open drains (Polysulphide sealants)</p> <p>23.12 Steel reinforcement</p> <p>(c) Welded steel fabric ref 195</p>				
2300	TOTAL CARRIED FORWARD TO SUMMARY				R 0.00

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SECTION 5100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100 LI 51.01	<p><u>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</u></p> <p>Stone pitching:</p> <p>(b) Grouted stone pitching 150 mm thickness(including excavation,trimming,compaction and backfilling)</p>	m ²	Rate Only		Rate Only
5100	TOTAL CARRIED TO SUMMARY				Rate Only

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SECTION 5600

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5600	<u>ROAD SIGNS</u>				
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	8		
56.06	Extra over item 56.05 for cement-treated soil backfill	m ³	4		
56.07	Extra over item 56.05 for rock excavation	m ³	1.5		
B56.12	Hazard plates(complete):				
	(a) 1000 mm x 250 mm	number	10		
5600	TOTAL CARRIED TO SUMMARY				0.00

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SECTION 5900

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5900	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
59.01	Finishing the road and road reserve: (b) Single-carriageway road	km	1.00		
5900	TOTAL CARRIED TO SUMMARY				

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SECTION 8100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8100 81.02	<u>TESTING MATERIALS AND WORKMANSHIP</u> Other special tests requested by the Engineer: (a) Cost of testing (b) Charge on Prime Cost Sum	- %	PC 46,300	Sum	R 46,300.00
8100	TOTAL CARRIED TO SUMMARY				

**BLOUBERG MUNICIPALITY
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SUMMARY OF SCHEDULE OF QUANTITIES

1200	GENERAL REQUIREMENTS AND PROVISIONS.....	R	_____
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS.....	R	_____
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL.....	R	_____
1500	ACCOMMODATION OF TRAFFIC.....	R	_____
1700	CLEARING AND GRUBBING.....	R	_____
1800	DAYWORKS.....	R	_____ Rates Only
2100	DRAINS.....	R	_____
2200	PREFABRICATED CULVERTS.....	R	_____
2300	CONCRETE KERBING, CONCRETE CHANNELING, CHUTES AND DOWNPIPES AND CONCRETE LINING FOR OPEN DRAINS.....	R	_____
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION.....	R	_____ Rate Only
5600	ROAD SIGNS.....	R	_____
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS.....	R	_____
8100	TESTING MATERIAL AND WORKMANSHIP TREATING OLD ROADS	R	_____

TOTAL R _____

CALCULATION OF TENDER SUM

SUMMARY OF SCHEDULE OF QUANTITIES TOTAL..... R _____

ADD CONTINGENCIES

The sum provided here is under the sole control of the
 Engineer and may be deducted in whole or in part. (The Tenderer
 must add 10% of the total of schedule of quantities)

R _____

SUBTOTAL R _____

ADD VALUE-ADDED TAX (VAT)

The tenderer shall add 15% of subtotal for VAT

R _____

TOTAL CARRIED TO FORM OF OFFER

R _____