

EVULULUKO EXTENSION 11& 12-SEWER RETICULATION

SUMMARY OF SCHEDULE OF QUANTITIES

LOT 1

PART 1: PRELIMINARY & GENERAL	N\$: _____
PART 2: SEWER NETWORK	N\$: _____
SUB - TOTAL EXCLUDING CONTINGENCIES	N\$: _____
ADD 10% CONTINGENCIES	N\$: _____
SUB - TOTAL INCLUDING CONTINGENCIES, EXCL. VAT	N\$: _____
ADD 15% VAT	N\$: _____
TOTAL CONSTRUCTION ESTIMATE (VAT INCL.)	N\$: _____

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART 1: PRELIMINARY & GENERAL						
SABS 1200 A: GENERAL						
8.3 SCHEDULED FIXED-CHARGES AND VALUE RELATED ITEMS						
1.1	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Establishment of Facilities on the Site:				
1.2	8.3.2.1	Facilities for the Engineer	Sum	1		
1.3	8.3.2.2	Facilities for the Contractor	Sum	1		
1.4	8.3.3	Other Fixed-charge obligations	Sum	1		
1.5	8.3.4	Removal of Site Establishment on Completion	Sum	1		
1.6		Contract Sign Boards	No	2		
8.4 SCHEDULED TIME-RELATED CHARGES FOR THE DURATION OF THE PROJECT						
1.7	8.4.1	Contractual requirements	Sum	1		
	8.4.2	Operation and Maintenance of Facilities on Site for the duration of Construction:				
1.8	8.4.2.1	Facilities for Engineer	Sum	1		
1.9	8.4.2.2	Facilities for Contractor	Sum	1		
1.10	8.4.3	Supervision for duration of Construction	Sum	1		
1.11		Company and Head Office Overhead Cost for the duration of Construction	Sum	1		
1.12	8.4.5	Other Time-related Obligations	Sum	1		
8.5 SUMS STATED PROVISIONALLY BY ENGINEER						
1.13		Additional tests ordered by the Engineer	PS	1	50,000.00	50,000.00
1.14		Overheads, Charges and profit on 1.3.1 above	%	50,000.00		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.8	TEMPORARY WORKS				
1.13	8.8.1	Main access road to works (construct and maintain)	Sum	1		
1.14	8.8.2	Dealing and Accommodation of Traffic	Sum	1		
	8.8.4	Existing services				
1.15	c)	Excavation by hand in soft material to expose	m ³	100		
1.16	d)	Temporary protection of services	Sum	1		
	8.8.5	Cost of Survey in Terms of the Land Survey Act (See sections PS12)				
1.17		Trigonometrical Survey and Plot Boundary Pegs - Protect and Re-establish	Sum	1		
1.18		Clearing of site of all concrete and other foreign including loading, transportation and disposing of material at a municipal dump site	m ³	100		
1.19		Relocation of existing services	PS	1	200,000.00	200,000.00
1.20		Keep Trenches free of water	sum	1		
PART 1: GENERAL : CARRIED FORWARD TO SUMMARY						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART 2: SEWER NETWORK						
SECTION 2.1: EARTHWORKS						
SANS 1200 DB: EARTHWORKS (PIPE TRENCHES)						
8.3.1 SITE CLEARANCE						
(a) CLEAR VEGETATION AND TREES OF GIRTH UP TO 1m FOR :						
2.1.1		Pipeline routes for width of 5m	m	5,281		
8.2.2 REMOVE AND GRUB LARGE TREES AND TREE STUMPS OF GIRTH:						
2.1.2		Over 1 m and up to and including 2 m	No	10		
8.3.2 EXCAVATION						
(b) EXCAVATE IN ALL MATERIALS FOR TRENCHES, BACKFILL, COMPACT AND DISPOSE OF SURPLUS MATERIAL FOR:						
uPVC Sewer Pipes over 100 up to 200 mm diameter (Main Lines) for trench depths:						
2.1.2		Exceeding 0.0 m but not 1.0 m	m	19		
2.1.3		Exceeding 1.0 m but not 1.5 m	m	69		
2.1.4		Exceeding 1.5 m but not 2.0 m	m	684		
2.1.5		Exceeding 2.0 m but not 2.5 m	m	1,089		
2.1.6		Exceeding 2.5 m but not 3.0 m	m	903		
2.1.7		Exceeding 3.0 m but not 3.5 m	m	503		
2.1.8		Exceeding 3.5 m but not 4.0 m	m	301		
2.1.9		Exceeding 4.0 m but not 4.5 m	m	145		
2.1.10		Exceeding 4.5 m but not 5.0 m	m			RATE ONLY
2.1.11		Exceeding 5.0 m but not 5.5 m	m			RATE ONLY
2.1.12		Exceeding 5.5 m but not 6.5 m	m			RATE ONLY
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		uPVC Sewer Pipes over 100 up to 200 mm diameter (House Connections) for trench depths:				
2.1.11		Exceeding 0.0 m but not 1.0 m	m	3		
2.1.12		Exceeding 1.0 m but not 1.5 m	m	338		
2.1.13		Exceeding 1.5 m but not 2.0 m	m	342		
2.1.14		Exceeding 2.0 m but not 2.5 m	m	374		
2.1.15		Exceeding 2.5 m but not 3.0 m	m	218		
2.1.16		Exceeding 3.0 m but not 3.5 m	m	250		
2.1.17		Exceeding 3.5 m but not 4.5 m	m	43		
2.1.18		Exceeding 4.0 m but not 4.5 m	m			RATE ONLY
2.1.19		Exceeding 4.5 m but not 5.0 m	m			RATE ONLY
2.1.20		Exceeding 5.0 m but not 5.5 m	m			RATE ONLY
	(c)	EXTRA-OVER FOR ITEM 8.3.2 (a) ABOVE FOR:				
2.1.17		Hard Rock Excavation	m ³			RATE ONLY
	(d)	EXCAVATE AND DISPOSE OF UNSUITABLE MATERIAL FROM TRENCH BOTTOM				
2.1.18		Excavate and dispose of unsuitable material from trench bottom	m ³	1,617		
	8.3.3	EXCAVATION ANCILLARIES				
	8.3.3.1	MAKE UP DEFICIENCY IN BACKFILL MATERIAL (PROVISIONAL)				
2.1.19	(a)	from other necessary excavations on site	m ³	500		
	8.3.6	FINISHING				
	8.3.6.1	REINSTATE ROAD SURFACES COMPLETE WITH ALL COURSES FOR:				
		All gravel road to the original state	sum	1		
CARRIED FORWARD						

ITEM				QTY	RATE	AMOUNT
BROUGHT FORWARD						
		SECTION 2.2: SEWERS				
		SANS 1200 LD: SEWERS				
	8.2.1	LAY, JOINT BED AND TEST				
		uPVC sewer pipes SABS1601, "Heavy Duty" Solid Wall with 400 kPa hoop strength and Z-LOK socket ends with the following diameters:				
		Main Lines:				
2.2.2		200 mm & 160 mm Ø I.D. - Sewer line	m	577		
2.2.3		160 mm Ø I.D. - Sewer line	m	3,136		
		House Connections:				
2.2.4		110 mm Ø I.D. - Sewer line	m	1,567		
	8.2.3	MANHOLES				
		Construct 30 MPa in situ concrete manholes complete as per drawings complete with Securex Y-600-D cover and frame, for the following depth ranges:				
2.2.5		Exceeding 0.5 m but not 1.0 m	No			RATE ONLY
2.2.6		Exceeding 1.0 m but not 1.5 m	No	22		
2.2.7		Exceeding 1.5 m but not 2.0 m	No	20		
2.2.8		Exceeding 2.0 m but not 2.5 m	No	29		
2.2.9		Exceeding 2.5 m but not 3.0 m	No	18		
2.2.10		Exceeding 3.0 m but not 3.5 m	No	19		
2.2.11		Exceeding 3.5 m but not 4.0 m	No	6		
2.2.12		Exceeding 4.0 m but not 4.5 m	No	4		
2.2.13		Exceeding 4.5 m but not 5.0 m	No			RATE ONLY
3.2.10		Exceeding 5.0 m but not 5.5 m	No			RATE ONLY
3.2.11		Exceeding 5.5 m but not 6.0 m	No			RATE ONLY
3.2.12		Exceeding 6.0 m but not 6.5 m	No			RATE ONLY
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.6	ERF CONNECTIONS				
		Construct 110 Ø uPVC Mainlite erf connection, on Sewer Main, complete with bends, y - junctions and air tight stopper. The trench excavations, bedding and pipe work is measured separately. (Includes cost of connection marker as detailed on drawings.)				
2.2.14	double	Type 1	No	2		
2.2.15	double	Type 2	No	52		
2.2.16	single	Type 3	No	12		
2.2.17	single	Type 4	No	32		
2.2.18	double	Type 5	No	8		
2.2.19	double	Type 6	No	9		
	8.2.7	ENCASING OF PIPES IN CONCRETE				
2.2.20		Concrete mix 20/19	m ³			RATE ONLY
	8.2.11	CONNECT TO EXISTING SEWER AT:				
2.2.21		Break into and connect to existing manhole including flexible joints and make good all benching	No	1		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		SECTION 2.3: BEDDING (PIPES)				
		SANS 1200 LB: BEDDING (PIPES)				
	8.2.1	PROVISION OF BEDDING				
		Available from trench (Sub clause 3.4.1)				
2.3.1		Selected granular material	m ³	951		
2.3.2		Selected fill material	m ³	665.7		
PART 2: SEWER NETWORK: CARRIED FORWARD TO SUMMARY						