

SCHEDULE 1 : PRELIMINARY AND GENERAL

ITEM NO.	REF. Cl.	DESCRIPTION	UNIT	QUANT.	RATE	AMOUNT
1.1	SABS 1200A 8.3	<u>GENERAL</u>				
		<u>FIXED CHARGE AND VALUE-RELATED ITEMS</u>				
1.1.1	8.3.1	Contractual Requirements	sum	1	-	R -
1.1.2	8.3.2	<u>Establish facilities on site</u>				
1.1.2.1	8.3.2.1	i) <u>Facilities for Engineer</u>				
		a) Engineer's office (PSA 4.3.1)	Sum	1	-	R -
		b) Name board (PSA 4.3.2)	Sum	2	-	R -
		c) Survey assistants and material	Sum	1	-	R -
1.1.2.2	8.3.2.2	ii) <u>Facilities for Contractor</u>				
		a) Offices and storage sheds	Sum	1	-	R -
		b) Workshops	Sum	1	-	R -
		c) Laboratories	Sum	1	-	R -
		d) Living accommodation	Sum	1	-	R -
		e) Ablution and latrine facilities	Sum	1	-	R -
		f) Tools and equipment	Sum	1	-	R -
		g) Water supplies, electric power and communications	Sum	1	-	R -
		h) Access	Sum	1	-	R -
		i) Plant	Sum	1	-	R -
1.1.3	8.3.4	Removal of Engineer's and Contractor's site establishment from site on completion of works.	Sum	1	-	R -
1.2	SABS 1200A 8.4	<u>TIME RELATED ITEMS</u>				
1.2.1	8.4.1	Contractual requirements				
		a) Engineer's office	Month	18	-	R -
		b) Survey assistants and material	Sum	18	-	R -
CARRIED FORWARD						R -

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BROUGHT FORWARD						R -
1.2.3	8.4.2	<u>Operations and maintenance of facilities on site</u>				
1.2.3.1	8.4.2.2	<u>Facilities for Contractor for the duration of the contract except where otherwise stated</u>				
		a) Offices and storage sheds	Sum	18	-	R -
		b) Workshops	Sum	18	-	R -
		c) Laboratories	Sum	18	-	R -
		d) Ablution and latrine facilities	Sum	18	-	R -
		e) Tools and equipment	Sum	18	-	R -
		f) Water supplies, electric power and communications	Sum	18	-	R -
		g) Access	Sum	18	-	R -
		h) Plant	Sum	18	-	R -
1.2.4	8.4.3	Supervision for the duration of the construction	Sum	18	-	R -
1.2.5	8.4.4	Company and Head Office overhead costs for the duration of the Contract	Sum	1	-	R -
		Project management for the entire period of the project (P	Sum	18	220 000,00	R 3 960 000,00
1.2.7	PSA 4.4	Excavation by hand in all materials to expose existing services	m³	10	-	R -
1.3	PSA 4.5	<u>Occupational Health and Safety</u>				
		Provision for the cost related to the Occupational Health and Safety Act, 85 of 1993, and the relevant Regulations:				
1.3.1		a) Preperation of a Health & Saftey Plan	Sum	1	-	R -
1.3.2		b) Complilation of a Risk Assessment prior to Construction	Sum	1	-	R -
1.3.3		c) Health & Safety induction Training of employees	Sum	1	-	R -
1.3.4		d) Compliation and keeping up to date the Health & Safety file which shall include all documentation required in terms of the act	Sum	18	-	R -
1.3.5		e) Implementation of the Health and Safety Plan over the entire construction period	Month	18	-	R -
CARRIED FORWARD						

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BROUGHT FORWARD						R 3 960 000,00
1.4	PSA	Community Training and Mobilisation				
		a) Health and hygiene education	Sum	1	145 000,00	R 145 000,00
		b) Training and development of small enterprises	Sum	1	75 000,00	R 75 000,00
		c) Social facilitation and community mobilisation	Sum	1	75 000,00	R 75 000,00
1.4		EIA and servitude acquisition				
		EIA and servitude acquisition for the pipeline (Ps)	Sum	1	3 250 000,00	R 3 250 000,00
		Additional geotechnical works				
		Additional geotechnical works (Ps)	Sum	1	400 000,00	R 400 000,00
TOTAL BILL 1 CARRIED FORWARD TO SUMMARY						

Schedule 2: Sewer Line

ITEM NO.	PAYM. REF.	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
2.1	SABS 1200DB	<u>SITE CLEARANCE</u>						
2.1.1	8.2.1	Clear and grub	m	8 170	R	-	R	-
2.1.2		Take down existing fences	m	2 000	R	-	R	-
2,1,3		Reinstate fence to the Engineer's instruction	m	2 000	R	-	R	-
2.2	SABS 1200DB	<u>EXCAVATION</u>						
		Excavate in all material for trenches, backfill, and compact and						
		Up to 500 mm dia. Fortotal trench depth						
		a) From 0,0m not exceeding 1.5m deep	m	400	R	-	R	-
		b) From 1.5m not exceeding 2.0m deep	m	1 520	R	-	R	-
		c) From 2.0m not exceeding 2.5 m deep	m	1 750	R	-	R	-
		d) From 2.5m not exceeding 3.0m deep	m	1 500	R	-	R	-
		e) From 3.0m not exeeding 3.5m deep	m	1 000	R	-	R	-
		f) From 3.5m not exeeding 4.0m deep	m	750	R	-	R	-
		g) From 4.0m not exeeding 4.5m deep	m	500	R	-	R	-
		Up to 900 mm dia. for total trench depth						
		a) From 0,0m not exceeding 1.5m deep	m	400	R	-	R	-
		b) From 1.5m not exceeding 2.0m deep	m	1 520	R	-	R	-
		c) From 2.0m not exceeding 2.5 m deep	m	1 750	R	-	R	-
		d) From 2.5m not exceeding 3.0m deep	m	1 500	R	-	R	-
		e) From 3.0m not exeeding 3.5m deep	m	1 000	R	-	R	-
		f) From 3.5m not exeeding 4.0m deep	m	750	R	-	R	-
		g) From 4.0m not exeeding 4.5m deep	m	500	R	-	R	-
CARRIED FORWARD							R	-

BROUGHT FORWARD							R	-
2.2.3		Up to 1 200 mm dia for trench depth up to 3.0m deep	m	120	R	-	R	-
2.2.4	8.3.2b)	<u>Extra-over item 3.2 for</u>						
8.2.9		a) Hard rock excavation	m³	1 500	R	-	R	-
8.2.10		b) Intermediate excavation	m³	1 800	R	-	R	-
8.2.11		c) Boulder Excavation	m³	900	R	-	R	-
8.2.12	8.3.2c)	Excavate and dispose of unsuitable material from trench bottom	m³	150	R	-	R	-
8.2.13	8.3.31c)	Import backfill material from commercial resources	m³	75	R	-	R	-
8.3	SABS 1200LB	PIPE BEDDING						
	8.2.1	<u>Supply and install selected granular material for bedding cradle from</u>						
8.3.1		a) Bedding material	m³	6 750	R	-	R	-
		b) Selected backfill	m³	23 600	R	-	R	-
		Overhaul of material for bedding cradle and selected fill blanket	m³.km					RATE ONLY
		Encasing of pipes in concrete grade 10/20 (Ps)	m³	500	R	-	R	-
		Geotextile membrane (14)	m³	5 000	R	-	R	-
		19 mm crush stone for bedding	m³	1 000	R	-	R	-
		Selected dump rock of 150 to 250 mm dia.	m³	500	R	-	R	-
		150 mm dia, slotted and perforated pipes	m³	1 000	R	-	R	-
CARRIED FORWARD							R	-

BROUGHT FORWARD							R	-
8.4	SABS 1200LD	<u>SEWER</u>						
	PSL 4.1	<u>Supply, lay, bed and test in Class B for the following:</u>						
	8.2.1 (a)	<u>SANS 674: 2015 Steel Reinforced HDPE Structured Wall pipe, Ring Siffness SN10, Pipe Jointing</u>						
8.4.1		a) 300 mm inner diameter	m	0	R	-	RATE ONLY	
		b) 350 mm inner diameter	m	1 400	R	-	R	-
		c) 400 mm inner diameter	m	0	R	-	RATE ONLY	
		d) 500 mm inner diameter	m	1 100	R	-	R	-
	8.2.1 (a)	<u>SANS 674: 2015 Steel Reinforced HDPE Structured Wall pipe, Ring Siffness SN12.5, Pipe Jointing</u>						
		a) 600 mm inner diameter	m	1 100	R	-	R	-
		b) 700 mm inner diameter	m	3 900	R	-	R	-
		c) 800 mm inner diameter	m	0	R	-	RATE ONLY	
		d) 900 mm inner diameter	m	750	R	-	R	-
		e) 1 200 mm inner diameter	m	120	R	-	R	-
	8.2.1 (b)	<u>Supply, join, lay and test CAC/ DOL complete pipes with spigot and socket joints of pipes class 75D</u>						
		a) 750 mm diameter	m		R	-	RATE ONLY	
		b) 825 mm diameter	m		R	-	RATE ONLY	
		c) 900 mm diameter	m		R	-	RATE ONLY	
		d) 1 200 mm diameter	m		R	-	RATE ONLY	
CARRIED FORWARD							R	-

BROUGHT FORWARD							R	-
8.5	PSLD	<u>MANHOLES</u>						
	PSL 4.1 8.2.3 (a)	Prefabricated HDPE manholes diameter 1 500 mm welded Over and up to						
8.5.1		a) 0.0 - 1.5m	No.	2	R	-	R	-
8.5.2		b) 1.5 - 2.0m	No.	40	R	-	R	-
8.5.3		c) 2.0 - 2.5m	No.	20	R	-	R	-
8.5.4		d) 2.5 - 3.0m	No.	25	R	-	R	-
		e) 3.0 - 3.5m	No.	12	R	-	R	-
		f) 3.5 - 4.0m	No.	10	R	-	R	-
		g) 4. - 4.5m	No.	6	R	-	R	-
		h) 4.5 - 5.0m	No.	5	R	-	R	-
		i) 5.0 - 5.5m	No.	1	R	-	R	-
		j) Above 5.5 m	No.	1	R	-	R	-
8.6		Marker posts	No.	50	R	-	R	-
8.7		<u>BULK CONNECTIONS</u>						
8.7.1		Supply, install and connect to bulk sewer line as per drawing detail	No.	8	R	-	R	-
		(LI) Marker posts	No.	50	R	-	R	-
		CCTV Survey of sewers (Ps)	Sum	1	R	-	R	-
TOTAL BILL 8 CARRIED FORWARD TO SUMMARY							R	-

	PSLD	MANAHOLES					
	PSL 4.1 8.2.3 (b)	<u>Manholes diadiameter 1 500 mm with light duty circular concrete covers. All rings shall be 250 mm in depth for manhole depth</u> <u>Over and up to</u> a) 0.0 - 1.5m b) 1.5 - 2.0m c) 2.0 - 2.5m d) 2.5 - 3.0m e) 3.0 - 3.5m f) 3.5 - 4.0m g) 4. - 4.5m h) 4.5 - 5.0m i) 5.0 - 5.5m j) Above 5.5 m					
			m	400	R	-	RATE ONLY
			m	1520	R	-	RATE ONLY
			m	1750	R	-	RATE ONLY
			m	1500	R	-	RATE ONLY
			m	1000	R	-	RATE ONLY
			m	750	R	-	RATE ONLY
			m	500	R	-	RATE ONLY
			m	400	R	-	RATE ONLY
			m	250	R	-	RATE ONLY
			m	0	R	-	RATE ONLY

BULK SEWER

SUMMARY OF BILLS

Description		Amount
SCHEDULE 1	PRELIMINARY AND GENERAL	R
SCHEDULE 2	SEWER LINE AND MANHOLES	R -
	SUB-TOTAL	R
	CONTINGENCIES @ 10%	R
	SUB-TOTAL	R
	VAT @ 15%	R
	TOTAL TENDER AMOUNT	R