

BILL OF QUANTITIES		
<u>DESCRIPTION:</u>		
<u>SUMMARY OF SCHEDULE OF QUANTITIES FOR ALL SECTIONS</u>		
SANS 1200A	PRELIMINARY & GENERAL	
SANS 1200DB	EARTHWORKS (PIPE TRENCHES)	
SANS 1200LB	BEDDING (SEWER PIPES)	
SANS 1200LD	SEWERS PIPES	
SUBTOTAL A		
Contingencies	10% Subtotal A	
SUBTOTAL B		
VAT	15% Subtotal B	
TOTAL		

SANS 1200A: PRELIMINARY AND GENERAL						
ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	SANS 1200A PSA 8.3	<u>SCHEDULED FIXED-CHARGE ITEMS</u>				
1,1	8.3.1	.01 Contractual Requirements				
1,2	8.3.2	.02 Establishment for Contractor				
1.2.1		e) Portable ablution and toilet facility				
1,3	PSA 8.3.3	Other fixed-charge obligations				
1,4	PSA 8.3.4	Removal of Site Establishment	Sum	1		
2	8,4	<u>SCHEDULED TIME RELATED ITEMS</u>				
2,1	8.4.1	.01 Contractual Requirements				
2,2	8.4.2.2 e	.02 Portable ablution and toilet facility				
2,3	PSA 8.4.3	03. Supervision for duration of construction				
2,4	PSA 8.4.5	04. Other time-rated obligations	Sum	1		
ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought Forward						
4	8,8	<u>TEMPORARY WORKS</u>				
4,1	8.8.1	Main access roads to Work sites construct, maintain, refurbish/rehabilitate)	PS Sum	1		
4,2	8.8.3	Protection of existing structures until construction in vicinity is complete	PS Sum	1		
4,3	8.8.4	Protection of existing services	PS Sum	1		
4,4	8.8.4	Excavate by hand in soft materials to expose existing services	m ³	30		
4,5	8.8.6	Special Water Control in Terms of Project Specifications	PS Sum	1		
TOTAL SANS 1200A CARRIED TO SUMMARY						

ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)				
	8.3.1	<u>SITE CLEARANCE</u>				
	5,1	8.3.1 (a)	Clear vegetation and trees of girth up to 1 m (5 m wide strip)	m	Rate Only	
5,2	8.3.1 (b)	Clear vegetation and trees of girth up to 1 m (5 m wide strip)	m	Rate Only		
6	SANS 1200 DB	<u>EXCAVATION</u>				
6,1	PSDB 8.3.2	Excavate in all materials for trenches, backfill, compact and dispose of surplus material:				
		.01 Pipes up to 600 mm dia for depths:				
		Excavation in soft material by labour based methods for				
		.01 depth trenches shallower than 1,2m and where the	m	Rate Only		
		total of the trench can be classified as excavation in soft material. Compaction by labour based methods is excluded.				
		.02 Over 1,0 m up to 2,0 m	m	Rate Only		
		.03 Over 2,0 m up to 3,0 m	m	1050		
		.04 Over 3,0 m up to 4,0 m	m	Rate Only		
		.05 Over 4,0 m up to 5,0 m	m	Rate Only		

6,2	PSDB 8.3.2	Extra over item 6.1 above for: .01 Hard rock excavation (breakable by excavator)-intermidiate .01 Hard rock excavation (breakkable by blasting) .02 Hand excavation where directed by the Engineer: .03 Extra excavation for Sub-surface drain under sewer	m³ m³ m³ m³	Rate Only Rate Only Rate Only 105		
6,3	PSDB 8.3.2	Excavate and dispose of unsuitable material from trench bottom (provisional	m³	32		
6,4	8.3.3	Excavation ancillaries:				
	8.3.3.1	.01 Make up deficiency in backfill material (Provisional):				
	-	.01 From other necessary excavations on Site	m³	Rate Only		
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Carried Forward						
ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought Forward						
	-	.01 From other necessary excavations on Site	m³	Rate Only		
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		.02 By importation from designated borrow pits	m³	Rate Only		
		.03 By importation from commercial or off-site sources selected by the Contractor (G5 - Refer to SANS 1200LB)	m³	1017		
		By importation from commercial or off-site sources selected by the Contractor (G7 - refer to SANS 1200LB)	m³	Rate Only		
	8.3.3.3	.02 Compaction in road reserves	m³	Rate Only		
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	8.3.3.4	.03 Overhaul (Provisional)				
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	-	.01 Long overhaul (over 10km)	m³-km	Rate Only		
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6,5	8.3.4	Particular items:				
		.01 Shore trench opposite structure or service	PS Sum	1		
		.02 Service detecting equipment	PS Sum	1		
6,6	8.3.5	Services that intersect or Adjoining a Pipe trench				
		.01 Services that intersect a trench	No	Rate Only		
		.02 Services that adjoin a trench	m	Rate Only		
6,7	8.3.6	Finishing:				
	PSDB 8.3.6.1	.01 Reinstate road surfaces complete with all courses:				
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-		.01 Gravel Surfaces -unpaved (150mm thick)	m²	Rate- Only		
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-		.02 Road layer works (300mm layers, constructed in 150mm layers)	m²	Rate- Only		
		.03 Asphalt Surfaces (30mm thick)	m²	Rate- Only		
		.04 Paving blocks/bricks Surfaces, including bedding	m²	Rate- Only		
		.05 Concrete stormwater drains, class 20	m²	Rate- Only		
		.06 Kerbing	m	Rate- Only		
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6,8	8.3.7	Accommodation of traffic	PS Sum	1		
6.9	PSDB 8.3.8	Take down and re-erect existing fences (mash, diamond, clearview, etc)	m	Rate- Only		
6.12	PSDB 8.3.11	Remove and dispose of existing pipes and rubble	m³	5		
TOTAL SANS 1200DB CARRIED TO SUMMARY						

ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7	SANS 1200 LB	<u>BEDDING (SEWER PIPES)</u>				
7,1	PSLB 8.2.1	Provision of bedding from trench excavations:				
		.01 Selected granular material	m³	Rate-Only		
		.02 Selected fill material	m³	Rate-Only		
7,2	8.2.2	Supply only of bedding by importation:				
		.01 From commercial sources (identified by the Contractor and approved by the Engineer):				
		.01 Selected granular material	m³	45		
7,3	8.2.4	Encasing of pipes in concrete:				
		.01 Class 20 MPa/19 mm	m³	15		
TOTAL SANS 1200LB CARRIED TO SUMMARY						

ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8	SANS 1200 LD	<u>SEWER PIPES</u>				
8,1	PSLD 8.2.1	Supply, lay, joint, bed on a flexible bedding and test pipeline: .01 HDPE Class 16 Heavy Duty pipes:				
		.01 110mm diameter	m	Rate-Only		
		.02 160mm diameter	m	Rate-Only		
		.03 200mm diameter	m	Rate-Only		
		.04 250mm diameter	m	Rate-Only		
		.05 300mm diameter	m	Rate-Only		
		.06 315mm diameter	m	Rate-Only		
		.07 525mm diameter	m	150		
8,2	8.2.2	Extra-over Item 8.2.1 for Specials				
		.01 110mm HDPE to PVC coupling	no	Rate-Only		
		.02 160mm HDPE to PVC coupling	no	Rate-Only		
8,3	PSLD 8.2.3	Precast concrete manhole:				
		.01 With concrete cover and slab, complete as per typical manhole detail drawings:				
		.01 Depth 0m up to 2m	no	Rate-Only		
		.02 Depth 2m up to 3m	no	Rate-Only		
		.03 Depth 3m up to 4m	no	Rate-Only		
		.04 Depth 4m up to 5m	no	Rate-Only		

8,4	8.2.5	Cleaning Eyes as per typical detail drawings	no	15		
8,6	PSLD 8.2.11	Construction of Manhole (Inclusive of blocking the existing sewer line upstream of the connection point. Also provide temporary by-pass for existing sewer line while connection is being completed)	no	15		
Carried Forward						
ITEM No	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought Forward						
8,9	PSLD 8.2.14	Geofabric blanket .01 Kaytech (or similar approved) U24 Geosynthetic with 300mm overlap	m²	815		
8.10	PSLD 8.2.15	Crushed Stone .01 19mm crushed stone	m³	45		
TOTAL SANS 1200LD CARRIED TO SUMMARY						
TOTAL SASTT-TS CARRIED TO SUMMARY						