

SANBI Kirstenbosch - Water Supply to KRC & CBC Building

BOQ

SECTION A: PRELIMINARY & GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
1	SABS 1200 A	SECTION A: PRELIMINARY & GENERAL					
1.1		FIXED-CHARGE ITEMS					
	PSA 8.3	Contractual Requirements					
	PSA 8.3.1	Contractor's fixed establishment cost	Sum	1			
	PSA 8.3.5	Fixed costs with respect to Health and Safety	Sum	1			
	PSA 8.3.7	Producing and submitting Quality Control Programme	Sum	1			
	PSA 8.4	TIME-RELATED ITEMS					
	PSA 8.4.1	Time-related establishment costs	Sum	1			
	PSA 8.4.2.2	Facilities for the contractor					
		a) Provide access for authorised personnel	Sum	1			
		b) Night-watchmen and Security	Sum	1			
	PSA 8.4.6	Time-related costs with respect to Health and Safety	Sum	1			
	PSA 8.4.8	Compliance with Quality Control Programme	Sum	1			
	PSA 8.5	PROVISIONAL SUMS					
	PSA 8.5.1	a) Cost of relocating existing electrical services by authority	PC Sum			5,000	00
		b) Overheads, charges and profit on PSA 8.5.1 above	%	5,000			
	8.7	DAYWORKS					
		Labour (Provisional):					
		a) Qualified artisan	hours	9			
		b) Skilled labourer	hours	9			
		c) Semi-skilled labourer	hours	18			
		d) Unskilled labourer	hours	18			
		e) Foreman	hours	9			
		f) Technician	hours	9			
		Materials:					
		a) Supply other material	Prov Sum			20,000	00
		b) Contractors overheads, profits, etc on item above	%	20,000			
		Plant:					
		a) Grader.....kW	hours	8			
Total Carried Forward							

BOQ

SECTION A: PRELIMINARY & GENERAL

[illegible]

BOQ

SECTION C: SITE CLEARANCE

[illegible]

BOQ

SECTION D: EARTHWORKS

[illegible]

SANBI Kirstenbosch - Water Supply to KRC & CBC Building**BOQ****SECTION DB: EARTHWORKS (PIPE TRENCHES)**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
	SABS 1200 DB	SECTION DB: EARTHWORKS (PIPE TRENCHES)					
	8.3.1	Site clearance and (if specified) removal of topsoil					
		c) Remove topsoil to depth of 150mm and maintain					
		i) Proposed HDPE irrigation pipeline	m ²	134			
		ii) Proposed HDPE reservoir pipeline	m ²	246			
	8.3.2	Excavation					
		a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material as per 5.2 (a)					
		Pipes up to 125mm external diameter for depth:					
		i) not exceeding 1.5m	m	633			
	8.3.5	Existing services that intersect or adjoin a pipe trench					
		a) Services that intersect a trench					
		i) Pipes of diameter up to 150mm	No.	3			
		ii) Electrical cables	No.	3			
		b) Services that adjoin a trench					
		i) Pipes of diameter up to 150mm	m	5			
		ii) Electrical cables	m	5			
	8.3.6	Finishing					
	8.3.6.1	Reinstate road surfaces complete with all courses					
		a) Gravel on shoulders	m ²	162			
		b) Asphalt of thickness 30mm in roadway	m ²	48			
		c) Basecourse material stabilised with 5% cement and compacted to 95% mod AASHTO density (2 layers 150mm thick)	m ²	48			
		d) Subbase material compacted to 95% mod AASHTO density (2 layers 150mm thick)	m ²	48			
Total Carried Forward To Summary							

BOQ

[illegible]

SANBI Kirstenbosch - Water Supply to KRC & CBC Building
BOQ
SECTION L: MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
	SABS 1200 L	SECTION L: MEDIUM PRESSURE PIPELINES					
	PSL 8.2.1	Supply, lay, bed, joint and test pipes complete with compression couplings					
		a) 50mm diameter class 10 HDPE	m	223			
		b) 63mm diameter class 10 HDPE	m	410			
	PSL 8.2.2	Extra-over 8.2.1 for the supplying, laying and bedding of specials complete with couplings					
		a) Compression fittings to suit HDPE class 10 pipework					
		i) 50mm diameter equal tee	No.	1			
		ii) 50mm diameter x 45 degree elbow	No.	1			
		iii) 63mm diameter equal tee	No.	1			
		iv) 63mm diameter equal coupling	No.	1			
		v) 63mm diameter x 45 degree elbow	No.	3			
		b) Pipework fittings for JoJo storage tanks					
		i) 50mm diameter x 90 degree bend	No.	10			
		ii) 50mm x 40mm male adaptor into tank	No.	4			
		iii) 50mm diameter equal tee	No.	2			
	8.2.3	Extra-over 8.2.1 for the supplying, fixing and bedding of valves					
		a) Pipework fittings for Jo-Jo storage tanks					
		i) 50mm diameter ball valve, full bore	No.	4			
		ii) 63mm diameter ball valve, full bore	No.	1			
	8.2.11	Anchor/Thrust blocks and pedestals					
		a) Concrete	m ³	3			
	PSL 8.2.16	Connect to existing pipelines					
		a) Connection of proposed reservoir pipeline to existing pipework (63mm HDPE x 110mm uPVC)	No.	1			
		b) Connection of proposed reservoir pipeline to existing pipework (63mm HDPE x 63mm HDPE)	No.	1			
		c) Connection of proposed irrigation pipeline to existing irrigation network (50mm HDPE)	No.	1			
		d) Connection of proposed irrigation pipeline to existing pipework (50mm HDPE x 50mm HDPE)	No.	1			
	PSL 8.2.17	Extra-over PSL 8.2.16 for dealing with existing flow	No.	1			
Total Carried Forward To Summary							

BOQ

SECTION LB: BEDDING (PIPES)

Total Carried Forward To Summary

BOQ

SECTION MJ: SEGMENTED PAVING

[illegible]

BOQ

[illegible]

BOQ

SECTION PLL: WATER HARVESTING WORKS

[illegible]

SANBI Kirstenbosch - Water Supply to KRC & CBC Building**BOQ****SUMMARY OF SECTIONS**

SECTION	DESCRIPTION	AMOUNT (RAND)
1	SECTION A: PRELIMINARY & GENERAL	.....
1	SECTION C: SITE CLEARANCE	.....
3	SECTION D: EARTHWORKS	.....
3	SECTION DB: EARTHWORKS (PIPE TRENCHES)	.....
4	SECTION G: CONCRETE (STRUCTURAL)	.....
5	SECTION L: MEDIUM PRESSURE PIPELINES	.....
6	SECTION LB: BEDDING (PIPES)	.....
7	SECTION MJ: SEGMENTED PAVING	.....
8	SECTION MK: KERBING AND CHANNELING	.....
9	SECTION PLL: WATER HARVESTING WORKS	.....
	SUBTOTAL	.....
		
	Total Carried Forward To Summary Of Schedules	.....

SANBI Kirstenbosch - Water Supply to KRC & CBC Building

BOQ

SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT (RAND)
1	SANBI	
	SUBTOTAL	
	<u>CONTINGENCIES</u>	
	Allow the sum of 15% (fifteen percent) of the above Subtotal for Contingencies to be spent as the Engineer may direct and to be deducted in whole or in part if not required.	
	TOTAL INCLUDING CONTINGENCIES	
	<u>VALUE ADDED TAX</u>	
	ADD: VAT at the rate of 14% (fourteen percent)	
Total		