ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	SANS 1200AA		SECTION 1 : PRELIMINARY GENERAL				
	PSA 8.2.1		Fixed-Charge Items				
1.1	8.3.1		Contractual Requirements	Sum	1,00		
	8.3.2		Establish Facilities on the Site				
1.2	8.3.2.1		Facilities for Engineer (SANS 1200AB)				
1.2.1	8.3.2.1 PSAB 3.1 & 3.2		a) Two contract nameboards, furnished offices and meeting room, printer, toilet and covered parking bays.	Sum	1,00		
1.2.2	PSAB 4.1		b) Telephone	No.	2,00		
1.2.3	PSAB 4.3		c) Computer	No.	1,00		
1.2.4	PSAB 4.4		d) Vehicle	No.	1,00		
1.3	8.3.2.2		Facilities for Contractor				
1.3.1			a) Offices and storage sheds	Sum	1,00		
1.3.2			b) Workshops	Sum	1,00		
1.3.3			c) Laboratories, testing equipment and facilities	Sum	1,00		
1.3.4			d) Living accommodation	Sum	1,00		
1.3.5			e) Ablution and latrine facilities	Sum	1,00		
1.3.6			f) Tools and equipment	Sum	1,00		
1.3.7			g) Water supply, electric power communications, dealing with water and access	Sum	1,00		
1.3.8	PSA 8.4.2.2		h) Dealing with water, inclusive of stormwater management plan for construction purposes	Sum	1,00		
1.4	8.3.3		Other fixed-charge obligations	Sum	1,00		
1.5	8.3.4		Remove Engineer's and Contractors site establishment on completion of works	Sum	1,00		
1.6			Compliance with OHS Act (Act 85 of 1993) and Construction Regulations 2014 requirements:				
1.6.1			Preparation of risk assessments, safe work procedures, the project H&S File and the H&S plan	Sum	1,00		
TOTAL CA	RRIED FOR	WAR	D D				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	T FORWARD	)					
1.6.2			The provision of PPE(exclude EPWP) and protective clothing, and all other H&S matters that the contractor deems necessary	Sum	1,00		
1.6.3			Completing and checking the Project H&S File and handing over to the Client on completion of the Works	Sum	1,00		
1.6.4		PE	Contractor's responsibility in terms of Quality Assurance, Construction Records and Construction Dossier	Sum	1,00		
1.6.5			Contractors responsibility in terms of Record of Decision and Environmental Management Plan	Sum	1,00		
1.6.6			Contractors Responsibility in terms of 24 hour security	Sum	1,00		
	PSA 8.2.2 & 8.4		Time-Related Items				
1.7	8.4.1		Contractual Requirements	Sum	1,00		
1.8	8.4.2		Operate and maintain facilities on Site	Sum	1,00		
1.9	8.2.2		Facilities for Engineer for duration of construction (SANS 1200AB)				
1.9.1	PSA 8.2.2		a) Two contract nameboards, furnished offices and meeting room, printer, toilet and covered parking bays.	Sum	1,00		
1.9.2	PSAB 4.1		b) Telephone	Sum	1,00		
1.10	8.4.2.2		Facilities for Contractor, for duration of construction except where otherwise stated				
1.10.1			a) Offices and storage sheds	Sum	1,00		
1.10.2			b) Workshops	Sum	1,00		
1.10.3			c) Laboratories, materials, testing equipment and facilities	Sum	1,00		
1.10.4			d) Living accommodation	Sum	1,00		
1.10.5			e) Ablution and latrine facilities	Sum	1,00		
1.10.6			f) Tools and equipment	Sum	1,00		
1.10.7			g) Water supply, electric power, communications dealing with water and access	Sum	1,00		

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TFORWARD						
1.10.8	PSA 8.4.2.2		h) Dealing with water	Sum	1,00		
1.10.9			i) Dealing with water, inclusive of stormwater management plan for construction purposes	Sum	1,00		
1.10.10	PSA 8.8.2		j) Dealing with traffic	Sum	1,00		
1.11	8.4.3		Supervision	Sum	1,00		
1.12	8.4.4		Company and head office over head costs	Sum	1,00		
1.13			Compliance with OHS Act (Act 85 of 1993) and Construction Regulations 2003 requirements:				
1.13.1			Updating and amending the risk assessments, safe work procedures, the project H&S File and the H&S plan	Sum	1,00		
1.13.2			The provision of PPE and protective clothing, and any other H&S matters that the contractor deems necessary for EPWP	Sum	1,00		
1.13.3			Compliance with SANS 1921 Part 6 HIV/Aids Awareness during the contract	Sum	1,00		
1.13.4			Full compliance with all H&S matters during the construction of the works under the contract	Sum	1,00		
1.13.5			Full compliance with EMP	Sum	1,00		
1.14	8.4.5		Other time-related obligations	Sum	1,00		
1.15	C3.3.3.2		Contractors commission for the provision of mentorship and management of the subcontractors for the work to be subcontracted to the locals.	sum	1,00		
1.16			PROVISIONAL SUMS				
1.16.1	PSAB 8.2.2 (a)		Laboratory Testing (Required by the Engineer)	Prov Sum	1,00		50,000,00
1.16.2			Contractor's Commission on Item 1.16.1	%	50 000,00		
1.16.3	PSDB 8.3.10		Relocation of existing services where ordered by the Engineer	Prov Sum	1,00		20,000,00
1.16.4			Provision of tools and equipment as specified by the Employer	Prov Sum	1,00		10,000,00
TOTAL C	ARRIED FOR	WAR	RD				DDO

ITEM NO		LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT	FORWARD						
1.16.5	PSA 8.5 (c)		Provision for Community Liaison Officer	Prov Sum	1,00		84,000,00
1.16.6			Contractor's Commission on Item 1.16.3 - 1.16.5	%	84 000,00		
1.16.7			Stationary and other consumables for the Engineer and his/her Representative	Prov Sum	1,00		20,000,00
1.16.8			Contractor's Commission on Item 1.16.7	%	20 000,00		
1.17	PA 5.1		DAYWORKS				
1.17.1			Labour				
1.17.1.1		LI	a) Foreman	Hr	20,00		
1.17.1.2		LI	b) Unskilled : labourer	Hr	30,00		
1.17.1.3		LI	c) Semi-skilled : pipelayer, section leader, survey assistant	Hr	30,00		
1.17.1.4			d) Skilled: artisan	Hr	10,00		
1.17.1.5			e) Surveyor including assistants and equipment	Hr	5,00		
1.17.2	PA 5.2		Plant				
1.17.2.1			a) Back-acting excavator	Hr	9,00		
1.17.2.2			b) Compactors	Hr	3,00		
1.17.2.3			c) Compressor with hoses, hand tools and bits (min air output 7m3/min)	Hr	10,00		
1.17.2.4			d) Tiptruck (6m3)	Hr	9,00		
1.17.2.5			e) Pedestrian roller (Bomag 60 or similar)	Hr	18,00		
1.18	PSA8.5 (d) C3.5.10		Provisional Sum for skills training and EPWP requirements	Prov Sum	1,00		20,000,00
1.18.1			E/O Item 1.18 for Contractor's overheads, charges and profit	%	20 000,00		
1.19			Provisional Sum for PSC Requirements	Sum	1,00		20,000,00
1.19.1			E/O Item 1.19 for Contractor's overheads, charges and profit	%	20 000,00		

SANS 1200C  SITE CLEARANCE  Note: Particular Specification PI: Employer's Environmental Management Specification for Environmental Management Specification for Environmental Management of construction projects  Clearing and Grubbing & Stripping  Clear and grub and strip topsoil:  b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  LI b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  LI a) Ore and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  Remove and grub large trees and tree stumps of girth:  LI a) over 1m and up to and including 2m  LI b) over 2m and up to and including 3m  No. 5,00  LI b) over 2m and up to and including 3m  No. 2,00  c) over 3m  No. 1,00  Dismantile existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Mire fencing with straining posts  Mire fencing with straining posts  PSC 8.2.12  Demarcation staking of pipeline servitude with wooden stakes  Fencing pipeline servitude in populated area	ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Note: Particular Specification PI: Employer's Environmental Management Specification for Environmental Management of construction projects  Clearing and Grubbing & Stripping Clear and grub and strip topsoil:  Li b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  Li b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  Remove and grub large trees and tree stumps of girth:  Li a) over 1m and up to and including 2m No. 5,00 Li b) over 2m and up to and including 3m No. 2,00 c) over 3m No. 1,00  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  PSC 8.2.12  Wire fencing with straining posts  Mire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  Fencing pipeline servitude in populated area  PSC 8.2.14  PSC 8.2.14  Removing and re-erecting of Structures  Prov Sum 1,00 20,000,00				SECTION 2:				
Employers Environmental Management Specification for Environmental Management of Construction projects  Clearing and Grubbing & Stripping  Clear and grub and strip topsoil:  1	2	1200C		SITE CLEARANCE				
Clear and grub and strip topsoil: b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  Li b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  Li b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  Remove and grub large trees and tree stumps of girth:  Li a) over 1m and up to and including 2m b) over 2m and up to and including 3m c) over 3m No. 2,00 c) over 3m No. 1,00  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.13  PSC 8.2.14  Removing and re-erecting of Structures  Prov Sum 1,00  20,000,00				Employer's Environmental Management Specification for Environmental				
2.1.1 B. 2.2.8 PSC 8.2.10  L1 b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  L1 b) Clear and grub vegetation and 150 mm thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  L1.2 B. 2.2 Remove and grub large trees and tree stumps of girth:  L1 a) over 1m and up to and including 2m No. 5,00  L2.2.1 L1 b) over 2m and up to and including 3m No. 2,00  C) over 3m No. 1,00  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Wire fencing with straining posts  Wire fencing with straining posts  PSC 8.2.12 Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.13 Fencing pipeline servitude in populated area  PSC 8.2.14 Removing and re-erecting of Structures  Prov Sum 1,00  20,000,00				Clearing and Grubbing & Stripping				
2.1.1 8.2.2 8 PSC 8.2.10 rhick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By hand)  2.1.2	2.1			Clear and grub and strip topsoil:				
thick topsoil, stockpile, maintain and reinstate on completion for all chambers (By hand)  Remove and grub large trees and tree stumps of girth:  LI a) over 1m and up to and including 2m No. 5,00  LI b) over 2m and up to and including 3m No. 2,00  c) over 3m No. 1,00  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts m 600,00  Wire fencing with straining posts m 500,00  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.13 Fencing pipeline servitude in populated area  Removing and re-erecting of Structures  Prov Sum 1,00  20,000,00	2.1.1		LI	thick topsoil, stockpile, maintain and reinstate on completion for all pipelines (By	m	7 800,00		
stumps of girth:  2.2.1	2.1.2		LI	thick topsoil, stockpile, maintain and reinstate on completion for all chambers	m²	150,00		
LI b) over 2m and up to and including 3m No. 2,00 c) over 3m No. 1,00  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts m 600,00  Wire fencing with straining posts m 500,00  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.12 Fencing pipeline servitude in populated area  PSC 8.2.14 Removing and re-erecting of Structures Prov Sum 1,00 20,000,00	2.2	8.2.2						
c) over 3m  Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Wire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.12  PSC 8.2.13  PSC 8.2.14  Removing and re-erecting of Structures  No.  1,00  1,00  600,00  m 600,00  m 20,00  m 300,00  20,000,00	2.2.1		LI	a) over 1m and up to and including 2m	No.	5,00		
Dismantle existing fencing, move to storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Wire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.12  PSC 8.2.13  PSC 8.2.13  Fencing pipeline servitude in populated area  PSC 8.2.14  Removing and re-erecting of Structures  Prov Sum  1,00  20,000,00	2.2.2		LI	b) over 2m and up to and including 3m	No.	2,00		
storage and later reinstate as directed by the Employer's Agent:  Welded mesh wire fencing with straining posts  Wire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.12  PSC 8.2.13  Fencing pipeline servitude in populated area  PSC 8.2.14  Removing and re-erecting of Structures  storage and later reinstate as directed by the Employer's Agent:  m 600,00  m 500,00  m 20,00  Prov Sum 1,00  20,000,00	2.2.3			c) over 3m	No.	1,00		
posts  Wire fencing with straining posts  Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.12  PSC 8.2.13  PSC 8.2.14  PSC 8.2.14  Removing and re-erecting of Structures  PSC 8.2.14  PSC 8.2.14  PSC 8.2.14  PSC 8.2.14  PSC 8.2.14  PSC 8.2.14	2.3	PSC 8.2.11		storage and later reinstate as directed by				
Demarcation staking of pipeline servitude with wooden stakes  PSC 8.2.13  PSC 8.2.13  Fencing pipeline servitude in populated area  PSC 8.2.14  Removing and re-erecting of Structures  Prov Sum 1,00 20,000,00	2.3.1				m	600,00		
with wooden stakes  PSC 8.2.12 with wooden stakes  Fencing pipeline servitude in populated area  PSC 8.2.14 Removing and re-erecting of Structures  Prov Sum 1,00 20,000,00	2.3.2			Wire fencing with straining posts	m	500,00		
2.3.5 PSC 8.2.14 Removing and re-erecting of Structures Sum 1,00 20,000,00	2.3.3	PSC 8.2.12			m	20,00		
2.3.5 PSC 8.2.14 Removing and re-erecting of Structures Sum 1,00 20,000,00	2.3.4	PSC 8.2.13			m	300,00		
	2.3.5	PSC 8.2.14		Removing and re-erecting of Structures		1,00		20,000,00
	TOTAL C:	DDIED SOS:		TO CHAMARY				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SANS		SECTION 3:				
3	1200D		EARTHWORKS STRUCTURES				
			Restricted excavation				
			Restricted excavation, beyond the limits of				
3.1	8.3.3		the pipe trench, in all materials to net outline of structures and to underside of				
0.1	0.0.0		blinding layers, including for disposal of				
			material.				
3.1.1		LI	Excavate material for all chamber bases	m³	70,00		
0.1.1			Excavate material for all chamber bases		70,00		
3.2			Extra over Items 3.1.1 for excavation in:				
3.2.1			Intermediate material (Prov.)	m³	40,00		
3.2.2			Hard rock (Prov.)	m³	10,00		
O.L.L			inala resik (i revi)		10,00		
3.2.3			Boulder excavation Class A (Prov.)	m³	5,00		
3.2.4			Boulder excavation Class B (Prov.)	m³	5,00		
3.2.5	PSD 8.3.9	LI	Extra over Items 3.2.1 to 3.2.4 for backfill stabilised with 8 % cement where directed	m³	5,00		
0.2.0	00 0.0.0	-	by the Engineer as per PSDB 3.5c (Prov.)	'''	0,00		
TOTAL CA	RRIED FORV	VARD	I O TO SUMMARY				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	SANS 1200DB		SECTION 4 : EARTHWORKS PIPE TRENCHES				
			Pipeline Trench Excavations:				
4.1	PSDB 8.3.2(a)		Excavate, in all materials for trenches, backfill, compact and dispose of surplus unsuitable material, for DN75 - DN 110 pipes for the following depths: Rates are to include for all temporary works including trimming, shoring and dewatering where necessary:				
			Over Up to and including				
4.1.1			0 m 1,5 m	m³	8 000,00		
4.1.2			1,5 m 2,0 m	m³	60,00		
4.1.3			2,0 m 3,0 m	m³	40,00		
4.2			Extra over Items in 4.1 for excavation in:				
4.2.1	PSDB 8.3.2(c)(1)		Hard rock (Prov.)	m³	10,00		
4.2.2	PSDB 8.3.2(c)(2)		Boulder excavation Class A (Prov.)	m³	5,00		
4.2.3	PSDB 8.3.2(c)(3)		Boulder excavation Class B (Prov.)	m³	5,00		
4.3	PSDB 8.3.2(e)		Extra over Items for 4.2.1 to 4.2.3 for backfill stabilised with 8 % cement where directed by the Engineer as per PSDB 3.5c (Prov.)	m³	20,00		
4.4	8.3.2 (c)	LI	Excavate and dispose of unsuitable material from trench bottom (Prov.)	m³	100,00		
4.5			Excavation ancillaries				
4.5.1	PSDB 8.3.3.1		Make up deficiency in backfill material from designated borrowpits	m³	200,00		
4.6	8.3.3.3		Compaction in road reserves	m³	20,00		
4.7	8.3.4(b)		Control of underground water seepage at stream crossings	m	300,00		
TOTAL CA	RRIED FORV	VARD					

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT	FORWARD						
4.8			Existing Services				
4.8.1	8.3.5(a)		Protect, maintain, repair services that intersect a pipe trench	No	40,00		
4.8.2	8.3.5(b)		Protect, maintain, repair services that adjoin a pipe trench	m	100,00		
4.9	PSDB 8.3.5(c)	LI	Excavate by hand to expose existing services	m³	25,00		
4.10	PSDB 8.3.6.2		Grassing where directed by Engineer (Prov)	m <sup>2</sup>	100,00		
4.11	PSDB 8.3.8		Sack Breakers where directed by Engineer (Prov)	No	100,00		
TOTAL CAI	 RRIED FORV	VARD	TO SUMMARY				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	SANS 1200GA		SECTION 5 : CONCRETE (SMALL WORKS)				
5.1	8.2		FORMWORK				
5.1.1		LI	a) Rough horizontal	m²	50,00		
5.1.2		LI	b) Rough vertical	m²	50,00		
5.1.3		LI	c) Smooth horizontal	m²	30,00		
5.1.4		LI	d) Smooth vertical	m²	60,00		
5.2	8.3		REINFORCEMENT				
5.2.1	8.3.1	LI	a) High tensile	kg	300,00		
5.2.2	8.3.1	LI	b) Mild steel	kg	300,00		
5.2.3	8.3.2	LI	c) Weldmesh Ref 245	m²	180,00		
5.3	8.4		CONCRETE				
5.3.1	8.4.2	LI	Blinding concrete Class 15/19 50 mm thick	m²	30,00		
5.3.2			Concrete Class 25/19 for tank bases				
5.3.2.1			Chambers	m³	15,00		
5.3.3			Concrete Class 25/19 to concrete pedestals, plinths and other minor concrete work, including all formwork.				
5.3.3.1			Concrete pedestals, plinths, etc	m³	25,00		
5.4			UNFORMED SURFACE FINISHING				
5.4.1	8.4.4	LI	a) Wood-floated finish	m²	200,00		
5.4.2	8.4.4	LI	b) Steel-floated finish	m²	10,00		
TOTAL CA	 RRIED FORV	VARD	TO SUMMARY				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	SANS 1200L		SECTION 6 : MEDIUM PRESSURE PIPELINES				
			Note: Particular Specification PB: Pipelines Valves has reference. Particular Specification PC: HDPE Pipes and Fittings has reference. Particular Specification PD: Disinfection of Pipelines and Fittings has reference.				
6.1			Supply, handle, lay, test, disinfect, join PVC pipes on bedding for flexible pipe				
6.1.1		LI	DN75 Class 16 uPVC	m	500,00		
6.2.1			DN90 Class 16 Upvc	m	500,00		
6.1.2		LI	DN110 Class 16 uPVC	m	500,00		
			Supply, handle, lay, test, disinfect, join HDPE pipes on bedding for flexible pipe				
6.2			HDPE Pipe PE80 (PN12) SDR 11				
6.2.1			DN75	m	3 300,00		
6.2.1			DN90	m	1 000,00		
6.2.1			DN110	m	1 500,00		
6.3			HDPE Compression Fittings and Specials PE100 (PN16) SDR 11				
	PSL 8.2.1		Supply, handle, lay, bed, test and disinfect pipe fittings and specials (including specified bolts, nuts and gaskets)				
6.3.1			Flange adaptors				
6.3.1.1			DN75	No.	15,00		
6.3.1.2			DN110	No.	15,00		
6.3.2			90 degree bend				
6.3.2.1			DN75	No.	10,00		
6.3.2.2			DN110	No.	12,00		
TOTAL CA	RRIED FORV	VARD					

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT	FORWARD						
6.3.3			Equal tees				
6.3.3.1			DN75	No.	1,00		
6.3.3.2			DN110	No.	2,00		
6.3.4			Reducing tees				
6.3.4.1			DN75	No.	1,00		
6.3.4.2			DN110	No.	2,00		
6.4			Steel Pipes And Fittings				
			NOTE: In accordance with SABS 62: Part 1, 3,3 mm thick steel pipes up to and including DN80 and 4,5mm thick Grade B steel plate for manufacture of DN80 hot dipped galvanised.				
	PSL 8.2.1		Supply, handle, lay, bed, test and disinfect pipe fittings and specials (including specified bolts, nuts and gaskets)				
6.4.1			Pipes				
6.4.1.1		LI	DN80 x 3700mm long d/fl pipe	No.	1,00		
6.4.2			Tees				
6.4.2		LI	DN80 FL Equal Tee	No.	1,00		
6.4.		LI	DN100 x DN80 FL Reducing Tee	No.	1,00		
6.6.4			Flange Adaptors				
6.6.4.1		LI	DN100	No.	1,00		
6.5	PSL 3.10 & 8.2.3		Supply, handle, install and test SABS approved waterworks pattern, flanged valves (SABS 1123, Table 1600 unless otherwise specified):				
6.5.1			Valves				
6.5.1.1		LI	DN80 d/fl wedge gate valve with square cap	No.	5,00		
TOTAL CAP	RRIED FORV	VARD	TO SUMMARY				PD17

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7	SABS 1200LB		SECTION 7 : BEDDING (PIPES)				
	.2002						
			PROVISION OF BEDDING				
	PSLB 8.2.1(1)		Provision of bedding from trench excavation				
7.1			Without the need for screening:				
7.1.1	PSLB 8.2.1(1)(a)	LI	Selected granular material	m³	2 100,00		
7.1.2	PSLB 8.2.1(1)(b)	LI	Selected fill material	m³	540,00		
7.2	PSLB 8.2.1(2)	LI	Including for screening				
7.2.1	PSLB 8.2.1(2)(a)	LI	Selected granular material	m³	70,00		
7.2.2	PSLB 8.2.1(2)(b)	LI	Selected fill material	m³	20,00		
7.3	8.2.2.2 & 8.2.2.3		Provision of bedding by importation from commercial or off-site sources, including for screening and/or other treatment:				
7.3.1	PSLB 8.2.1(2)(b)	LI	Selected granular material	m³	70,00		
7.3.2	PSLB 8.2.1(2)(b)	LI	Selected fill material	m³	20,00		
7.4	PSLB 8.2.6	LI	13 mm Drianage layer	m³	10,00		
TOTAL CA	RRIED FORV	VARD	TO SUMMARY				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8			SECTION 8 : ELECTRICAL AND ELECTRONIC EQUIPMENT AND INSTALLATION				
8.1			Electrical Installation				
8.1.1			Provision for Eskom Power Supply to existing pumpstation	Prov Sum	1,00		1000 000,00
8.1.2			Contractor's mark-up on items 9.1.1	%	1000 000,00		
8.1.3			Trenching and cabling from Eskom connection points 2No. Stations)	m	140,00		
8.1.4			Allow for a sum for telemetry monitoring and control systems for improve management.	Prov Sum	1,00		400 000,00
TOTAL CAL	PRIED FORM	VAPD	TO SUMMARY				
TOTAL CAL	VIVIED FORV	VARD	I O GUIVINAN I				

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9			SECTION 9: SUNDRIES				
9.1	8,4		CONCRETE				
9.1.1	PSL 8.2.11	LI	Anchor/Thrust blocks, inclusive of formwork and additional excavation Class 25/19	m³	2,00		
9.1.2	PSL 8.2.12	LI	Concrete Encasing at Stream Crossings, including formwork and additional excavation Class 25/19	m	10,00		
9.1.3	PSL 8.2.18	LI	Concrete marker posts. Rates are to include for base concrete, installation & painting	No.	30,00		
9.2	PSL 8.2.15		Denso wrapping bolted fittings located underground				
9.2.1		LI	DN150	No.	5,00		
9.2.2		LI	DN100	No.	10,00		
9.2.3		LI	DN80 to DN50	No.	20,00		
9.3		LI	Supply and install 50mm Discus 0370 keyed alike padlocks with 3 keys as supplied by Multi Locking	No.	25,00		
9.4			VALVE CHAMBERS				
9.4.1			Supply and construct isolating valve chamber complete as per drawing P0023/SD/02 (pipework measured elsewhere)	No.	5,00		
9.5			CONNECT TO EXISTING PIPELINES				
	PSL 8.2.17	LI	Connect to existing pipelines in the following areas (Rate to include exposing of existing pipe, supervision, liaison with Operator, preparation of method statements, dealing with water from the existing pipelines and any other operation to successfully complete the tie in):				
9.5.1			Connect to DN50 pipe	No.	2,00		
9.5.2		LI	Connect to DN63 pipe	No.	2,00		
TOTAL CAI	RRIED FORV	VARD					

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT F	ORWARD						
9.5.3			Connect to DN90 pipe	No.	2,00		
9.5.4		LI	Connect to DN110 pipe	No.	2,00		
9.5.5		LI	Connect to DN160 pipe	No.	1,00		
9.6			EXISTING PUMPING STATIONS				
9.6.1			Alllow a Provisional Sum for rehabilitation of existing Pumping Station Facilities.	Prov Sum	1,00		2,050,000,00
9.7			EXISTING RESERVOIR				
9.7.1			Alllow a Provisional Sum for repair and recommisioning of existing Reservoirs and chambers (including resealing, watertightness test).	Prov Sum	1,00		800,000,00
9.8			PIPE JACKING				
9.8.1			Alllow a Provisional Sum for pipejacking specialist.	Prov Sum	1,00		850,000,00
9.10			Contractors commission o item 9.6 to 9.8	%	3700 000,00		
TOTAL CAR	RRIED FORV	VARD T	O SUMMARY				