Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount
	SABS 1200 A	SECTION A: PRELIMINARY AND GENERAL				
A1		Fixed charge items:				
A 1.1	8.3.1	Contractual requirements	Sum	1		
A 1.2	8.3.2	Establishment of Facilities on the Site				
	8.3.2.1	Facilities for Engineer				
A 1.3		a) Furnished office for Resident Engineer suitable for site meetings	Sum	1		
A 1.4		b) One Cellular phone (remains the property of the contractor)	Sum	1		
A 1.5		c) Nameboard as per drawing	Sum	1		
A 1.7		e) One Carport as specified	Sum	1		
A 1.8		f) Provision of monthly as-built" records to the Engineer"	Sum	1		
A 1.9		g) Ablution and latrine facilities	Sum	1		
A 1.10		h) Laptop & Printer - 2.6 GHZ Processor, 6 GB RAM,320 Gig HD,CD/DVD Drive with USB port min. Core i7 or similarly approved, complete with Windows 7 operating system & MS Office Basic and 3G Modem (remains the property of the contractor)	Sum	1		
	8.3.2.2	Facilities for Contractor				
A 1.15		a) Offices and storage sheds	Sum	1		
A 1.16		b) Workshops	Sum	1		
A 1.17		d) Living accommodation	Sum	1		
A 1.18		e) Ablution and latrine facilities	Sum	1		
A 1.19		f) Tools and equipment	Sum	1		
A 1.20		g) Water supplies, electric power and communications	Sum	1		
A1.21		h) Dealing with water	Sum	1		
A 1.23		Digital camera to take digital photographs of existing structures, roads and obstructions on the pipeline routes and submit to the Engineer (remains the property of the contractor)	Sum	1		
A1.24		Removal of Site Establishment after successful completion of the project	Sum	1		
		Carried forward/				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount
		Brought Forward/				
		SCHEDULED TIME-RELATED ITEMS	Month			
A 1.25	8.3.1	Contractual Requirements	Month			
		Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated				
	8.4.2.1	Facilities for Engineer				
A 1.26		a) Furnished office for Resident Engineer suitable for site meetings	Month			
A 1.27		b) One Cellular phone	Month			
A 1.28		c) Nameboard as per drawing	Month			
A 1.30		d) One Carport as specified	Month			
A 1.31		e) Provision of monthly as-built" records to the Engineer"	Month			
A 1.32		f) Ablution and latrine facilities	Month			
	8.4.2.2	Facilities for Contractor				
A 1.34		a) Offices and storage sheds	Month			
A 1.35		b) Workshops	Month			
A 1.36		c) Living accommodation	Month			
A 1.37		d) Ablution and latrine facilities	Month			
A 1.38		e) Tools and equipment	Month			
A 1.39		f) Water supplies, electric power and communications	Month			
A 1.40		g) Dealing with water	Month			
A 1.41		h) Access	Month			
A 1.44	8.4.3	Supervision for Duration of Construction	Month			
A 1.45	8.4.4	Company and Head Office Overhead Costs for the Duration of the Contract	Month			
A 1.46	8.4.5	Other Time-related Obligations (Specify)	Sum			
		Carried to Forward				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount
		Brought Forward/				
		Survey Beacons/pegs				
A 1.47	8.5.5	Search for, record, reference and protect survey stations, bench marks, boundary pegs and other				
		reference pegs and expose on completion of works	Sum			R 50 000,00
			Suili			50 000,00
A 1.48		Provisional sum for specialised geotechnical investigations	Provisional Sum			R 50 000,00
A 1.49		Contractor's charges and profit on Item A 1.48 (state percentage and extend as an amount)	%		R 50 000,00	
	8,7	Dayworks				
		a) Plant				
A 1.50		(i) Air compressor, 4m³/min, complete with drills, jack hammer etc.	hr	100		
A 1.51		(ii) 25 l/s Pump including all necessary hoses	hr	100		
A 1.52		(iii) Truck 10m³ with operator	hr	100		
A 1.53		(iv) Concrete mixer 0.5m³	hr	150		
A 1.54		(v) Excavator 25T	hr	250		
A 1.55		(vi) Watercart 10 kl	hr	100		
A 1.56		(vii)Pneumatic roller	hr	150		
A 1.57		(viii)Padfoot roller	hr	100		
A 1.58		(ix)Grader	hr	100		
		b) Labour				
A 1.59		(i) Unskilled	hr	300		
A 1.60		(ii) Artisans	hr	250		
A 1.61		(iii) Survey assistants	hr	50		
	8,5	SUMS STATED PROVISIONIALLY BY ENGINEER				
A 1.64		(Paid only on discretion of the Employer)				
A 1.65		a) Relocation of existing services	Prov Sum			R 30 000,00
A 1.66		b) Overheads, charges and profit on item above A 1.65	%	R 30 000,00		
A 1.67		c) Accredited Training	Prov Sum			R 30 000,00
A 1.68		d) Overheads, charges and profit on item above A 1.67	%			
		Carried to Forward				

Item No.	Payment Clause	Short Description	Unit	Quantity		Rate	Amount	
		Brought Forward/					R	
A 1.69	8,6	PRIME COST ITEMS  a) Additional quality control test by approved laboratory instructed by the Engineer. (The cost of tests not conforming to standards shall not be included for payment)	P C Sum				R	15 000,00
A 1.70		b) Contractor's superintendence and administration of item above A 1.69	%			R 15 000,00		
A 1.71		c) Community Liaison Services (The Rate includes a R500 Airtime and Data)	Month			R8 000,00		
A 1.72		d) Project Steering Committee Allowance (6 @ R500 per Month and Siting)	Month			R3 000,00		
		ADDITIONAL SURVEY						
A 1.73		a) As instructed by the Engineer	P C Sum		1		R	20 000,00
A 1.74		b) Overheads, charges and profit on item (a) above A 1.73	%	R	20 000,00			
A 1.75		Site finishing	Sum		1			
A 1.76	PS 11	HEALTH AND SAFETY Compliance with OHS Act and regulations (incl. the construction regulations, 2003)						
A 1.77		Allow for the cost compiling a Safety Plan as required in the specifications for the Principal Contractor / Contractor (All appointed sub - contractors to provide safety plans)	Sum		1			
A 1.78		Allow for the cost of the Notification of Construction Work by the Principal Contractor / Contractor	Sum		1			
A 1.79		Allow for the cost of a copy of OHS Act 85 of 1993 (Book or poster form. To be displayed in the site office)	Sum		1			
A 1.80		Allow for the costs of required Risk Assessments and method statements (Risk Assessments must include all Safe Work Procedures).	Sum		1			
A 1.81		Allow for the costs to compile all Health and Safety Inspection Registers for required tasks.	Sum		1			
	PS 11	HEALTH AND SAFETY TRAINING						
A 1.82		Allow for the costs of all relevant training on site.	Sum		1			
A 1.83		General Safety Induction Training of all employees on site	Sum		1			
A 1.84		First Aid Training	No.		2			
A 1.85		Fire Fighting Training	No.		2			
A 1.86		Weekly Toolbox Talks (to be conducted by Health and Safety Representative).	Sum		1			
A 1.87		Public Safety near construction site (to be conducted by Health and Safety Representative and CLO).	No.		1			
	PS 11	ACCREDITED TRAINING OFF SITE						
A 1.88		First Aid Level 1	No.		5			
A 1.89		Fire Fighting Level 1	No.		2			
A 1.90		Health and Safety Representative	No.		5			
		Carried to Forward						

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
NO.	Ciause	Brought Forward/				
		Drought of Ward				
A 1.91		Medical Certificates of Fitness for mobile plant / Construction vehicle operators	No.	15		
A 1.92		Medical Certificates of Fitness for all Construction workers	No.	50		
A 1.93		Drivers Certificates of Competency for mobile plant / construction vehicle operators	No.	15		
A 1.93	PS 11	SAFETY EQUIPMENT REQUIRED ON SITE	140.	10		
A 1.94		First Aid Box (fully stocked)	No.	2		
A 1.95		9.2.9Kg Dc STP Fire Extinguishers	No.	2		
A 1.96		Dust Masks	No.	100		
A 1.97		Safety Goggles	No.	100		
A 1.98		Gloves (leather/PVC)	No.	100		
A 1.99		Hard hats	No.	50		
A 1.100		Barrier tape (Netting)	m	2000		
A 1.101		Reflective Vests	No.	100		
A 1.102		Traffic Control Sign Boards	No.	10		
A 1.103		Prohibitive Symbolic Signs (near Diesel / Flammable Fluid Storage).	No.	5		
A1.104		Acomadation for the <b>Engineers</b> staff				
A1.105		An allowence has to be paid for Engineers accomadation.	Month		R 10 000,00	
A1.109		Contract charges and profit on item A 1.105.(State persentage and extrent as anamount)	%			
A1,110		Allowance for training of a student on site	Months		R10 500,00	
A1,111		Contractors charges and Profit on Item A1,110	%			
A1.112		Allowance for 24 hour security guards at water treatment plant, operators houses and the three pump stations	Months			
A1.113		Contractors charges and Profit on Item A1,112	%			
A1.114		Appointment of APP to compile the permit to inpound for Port ST John's dam. Only as ordered by the Engineer	Prov Sum			R 100 000,00
		Contractors charges and Profit on Item A1.114	%		R100 000,00	
		Carried to Summary	[			
		Same to caninal y				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount
		Section B : Gabions and Pitching				
	SANS					
	1200 K					
B1		Surface preparation				
B1.1	8.2.1(a)	Cavities filled with approved	2			
		excavated rock material	m <sup>2</sup>	20		
B1.2	8.2.1(b)	Cavities filled with 15Mpa/19mm	2			
		concrete	m <sup>2</sup>	10		
B2	8.2.2	Gabions				
B2.1		Supply and deliver to site mesh				
		type 80 with 2,7mm Class A	2			
		Galvanised wire (1m x 1m x 1m)	m <sup>3</sup>	20		
В3		Installation of Gabion units,				
		including unfolding, placing,	3	20		
		filling, lacing and bracing	m <sup>3</sup>	20		
B4		Rock fill of Gabions with	3			
		150 to 200 mm diameter stones	m <sup>3</sup>	20		
B5	8.2.3	Packing selected stone for				
		exposed face	m <sup>2</sup>	20		
В6	8.2.4	Geotextiles				
B6.1		Supply and deliver to site				
		including unrolling, cutting and				
		placing continuous polyester filament Double Needle-Punched				
		AG 200 Geotextile	m <sup>2</sup>	100		
В7		Reno Mattresses				
B7.1	8.2.2	Supply and deliver to site				
D7.1	0.2.2	60 mm with 2,2 mm Class A	0			
		Galvanised wire (2 x 1 x 0,3)	m <sup>3</sup>	30		
B8	8.2.1(a)	Surface preparation for bedding				
	8.2.1(b)	of Reno Mattresses	m <sup>2</sup>	30		
В9		Installation of Reno Mattresses				
		including unfolding, placing,	2			
		filling and lacing	m <sup>3</sup>	30		
B10		Rock fill of Gabions with				
		150 mm to 200 mm diameter stones	m <sup>3</sup>	30		
				30		
B11 B11.1	8.2.4	Geotextiles Supply and deliver to site				
U11.1		including unrolling, cutting and				
		placing continuous polyester				
		filament Double Needle-Punched AG 200 Geotextile	m <sup>2</sup>	100		
	1	TO LOG GEOLEAGIC		100		1

		7 SCHEDULE OF QUANTITIES						
Item	Payment	Description	Unit	Quantity	Tendered Bill of Quantities  Rate Amou	Quantities Amount		
iteiii	rayment	Description	Onit	Quantity	Nate Amou			
		SECTION C: Building works						
		Abstraction Manifold chamber						
C1	SABS 1200 DB	Excavation  (a) Remove topsell to period don'th 150mm, stockails and	m²	44				
	8.3.1	(a) Remove topsoil to nominal depth 150mm, stockpile and maintain	m-	44				
C2		(b) Excavate in all materials and use for embankment or backfill	m³	130				
		or dispose						
C3		(c) Extra over C2 above for:						
C3.1		1) Intermediate excavation	m³	0				
C3.2		2) Hard rock excavation	m³	26				
C4		Supply and compacted G5/G6 Fill material to 95% MAMDD	m³	5				
		General backfill around manhole and compacted in layers of 150mm and compacted						
C5		to 93% MAMDD	m³	66				
C6	SABS 1200 G	CONCRETE STRUCTURAL						
C6.1	8,2	SCHEDULED FORMWORK ITEMS						
	8.2.2	Smooth Formwork						
C6.1.1		200mm high vertical formwork for base of chamber	m²	4				
00		200 mm mg 1 10 acad 10 mm m m m m m m m m m m m m m m m m m		·				
C6.1.2		Vertical formwork for wall of chamber	m²	80				
C6.1.3		Horisontal for slab of chamber	m²	13				
C7		SCHEDULED REINFORCEMENT ITEMS						
	8.3.1	Steel bars						
C7.1		High Tensile steel bars for Manhole	t	1,709				
C7.2		Mild steel bars for chamber		0,043				
C1.2		mild steel dars for chamber	t	0,043				
C8		SCHEDULED CONCRETE ITEMS						
	1200G	Class 30/19 Mpa concrete in:						
C8.1		(a) Chamber base, walls and Cover Slab 30 Mpa	m³	19				
C9		Manhole Covers						
C9.1		Supply and install 560mm dia extra heavy duty concrete lockable manhole cover	No	1				
00.0		0		_				
C9.2		Supply and install 1070x1070mm concrete manhole cover as per Drg 1415-0-1200	No	2				
C10	PS11	Box out Holes						
C10.4		For hex cut hala 500y500mm	NI-	4				
C10.1		For box out hole 500x500mm	No	1				
C10.2		For box out hole 400x400mm	No	1				
C11		Supply and install Gantry for Abstraction pump station	C1	1				
<b>U</b> 11		Japping and mistall danitry for Abstraction pullip station	Sum					
C12		Supply and install double 2,05m high double galvanised leaf gates	No	2				
		Supply and install Type A Transformer room door 815mm x 2030mm fully louvered						
C13		AVA	No	1				
		Supply and install Type D Transformer room door 1830mm x 2440mm fully louvered						
C14		DVA	No	1				
				l				
TOTAL C	ARRIED FOR	RWARD						

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
C16	PS11	Fencing at off channel Dam				
C16.1		Corner Post as per Drg 1415-0-2102B	No	2		
C16.2		Straining Post as per Drg 1415-0-2101B	No	4		
C16.3		Droppers as per Drg 1415-0-2101B	No	36		
C16.4		Y-Standards as per Drg 1415-0-2101B, 2.5kg/m	No	8		
C16.5		Barb Wire installed as per Drg 1415-0-2101B, double stand, 2mm thick	m	800		
C17	PSY8-2	Gates (a) Supply and install 2.05m high double leaf gates and straining and anchor post (including excavations concrete and backfill)	No	1		
C18		Booster Pump Stations and Water Treatment Works Site clearence, bushes, grass cutting and disposal off	m²	4000		
C19	PSQB 13.10.1	Painting of building complete with 2 coats, colour to client specification (Interior and Exterior)	m²	500		
C20	PS11	450mm wide rectagrid for cable trenches, including 25x25x5mm angle iron	m	120		
C21 C21.1		Burglar bars for Water Treatment building and Guard house Supply and install burglar bars for timber frame windows (1,5m width x 0.9m height)	No	11		
C21.2		Supply and install burglar bars for timber frame windows (1m width x 0.9m height)	No	2		
C21.3		Supply and install burglar bars for timber frame windows (0.5m width x 0.6m height)	No	2		
C22 C22.1		Septic tank lid Cast and install reinforced concrete slab with mesh REF395 (1.5m x 1.4m), including 0.4m x 0.4m lids	m³	1		
C23 C23.1	13.10.1	PROCESS CONTROLER QUARTERS Painting				
C23.1.1	10.10.1	1 Coat plaster primer	m²	290		
C23.1.2		2 Coats acrylic PVA internally	m²	290		
C24 C24.1	SPEC QB 13.8.4	Tiling and flooring Wall tiling 150 x150 mm white glazed tiles to kitchen	m²	18		
C24.2		Skirtings	m	50		
C24.3		Quardrants	m	150		
C24.4		Supply and install 200 x 75 mm precast concrete channel	m	200		
C25 C25.1	SPEC QB 13.7.2	Burglar bars, pelmets and blind curtains for these windows HA5F (2033 X 1454)	No	4		
C25.2		HE 6 (600X630)	No	2		
C25.3		HG15 (1500X1215)	No	14		
C26 C26.1		Frosted glazing glasses HE 6 (600X630)	No	3		
C26.2 C27		HG15 (1500X1215) Electrical	No	2		
C27.1		Supply and install compact fluoroscent light	No	12		
C28 C28.1		Transparent glazing HG15 (1500X1215)	No	2		
C29		Mirrors: 400 x 400 mm fixed to walls (Bathroom)	No	2		
C30 C31		Soap dish Supply 75mm PVC Down pipes including all fittings and fixing	No m	2 40		
C32 C32.1	PS 11	Miscellaneous Supply and install three plate electrical stove	No	2		

	14	In	lot at Daniel from		11.9	0	D :	I
Purpose min to Dam and Water Treatment Various	Item No.	Payment Clause	Short Description		Unit	Quantity	Rate	Amount R
Size Clearance				oirs				
Control of the Property State   Control of the Property Stat								
100.00   1	D1				m²	150		
100.00   1	D2	SARS	FARTHWORKS					
Description of indiality is programmed and misselection flowers of supplies (and provided for spipe up to 400mm and colored for spipe up to		1200 DB	LAKIMOKKO					
200-22	D2.1			ad aliamana af arrentra				
Possible 5		1		ia dispose oi sarpias				
20.11   20.088-5   2.12   2.		PSD8-3	for depths:					
20.12   20.08   20.00   20.00   1   20.00   20.00   1   20.00   20.00   1   20.00   20.00   1   20.00   20.00   1   20.00   20.00   1   20.00   20.00   1   20.00	D2 1 1				m	100		
Substitute   Sub				,				
PSDIS-1   Treatment of tranch bottoms to main pigelines   Compaction of all-thin insterial   Compaction of all-thin ins	D2.1.2		1,2m	2,0m	m	1		Rate Only
Compaction of in-after national   Compaction of road reserve to 95% MAMDD   m²   20   20   20   20   20   20   20   2	D3	8.3.2(b)	Extra over for item D2.1.1 and D2.1.2 hard rock excava	ations	m³	200		
Compaction of in-after national   Compaction of road reserve to 95% MAMDD   m²   20   20   20   20   20   20   20   2	D4	DCDD0 1	Treatment of trough bottoms to main ninelines					
Search   Sale	D5	0000-1			m²	100		
Search   Sale								
Corrector	D6.1	8.3.3.1		ces selected by				
100.00   1				,	m³	80		
100.00   1	D6.2	8.3.2	Stockpile, on site bedding material from excavations		m³	20		
1200.LB   3								
S2.1	D6.3	8.3.3.3	Compaction of road reserve to 95% MAMDD		m³	50		
PSLB-1	D7	1200LB	Bedding					
PSLB-1		8.2.1	Provision of bedding from excavations for flexible pipe:	s:				
Selected fill blanket   Sele	D7 1	1			m3	20		
December		JI SLD0-2	-					
Selected granular material   m²   80	D7.2		Selected fill blanket		m³	60		
Salicated fill blanket   Salicated fill blan		8.2.3		eer)				
December	D7.3		Selected granular material		m³	80		
B.2.1   Supply, lay, joint, bed and test pipes	D7.4		Selected fill blanket		m³	60		
B.2.1   Supply, lay, joint, bed and test pipes	D8	1200L	Pipework					
D8.1.1   A00mm (uPVC Class 9)		8.2.1						
Extra over for supplying, laying, jointing, bedding and testing of uPVC   pipe specials   400mm x 11,25 deg.   400mm x 11,25 deg.   No   2   400mm x 11,25 deg.   No   1   400mm x 11,25	۱ .۵۵	P-9F0-1	Jouppiy, iay, joint, bed and test pipes					
Pipe specials	D8.1.1		400mm (uPVC Class 9)		m	100		
	D9	8.2.2		nd testing of uPVC				
D9.2 400mm x 11,25 deg. No 2 D9.3 8.2.2 400 mm ø flange adaptor for 400 mm ø uPVC pipes No 2 D9.4 8.2.2 200 mm dia flange adaptor No 1 D9.5 250mm reflux valve, flanged, class25 Supply and install 210mm dia galvanised goose neck inlet pipe with 380mm height flanged both ends incl botts, washers and nuts D9.6 Leveldex float control valve including all fittings for connection 210mm diameter inlet D10 1200GE 8.2.1 680mm x 980mm with lifting hooks, 25Mpa Concrete, including mesh ref 395 No 1 Section 8.2.4 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 4 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 4 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 4 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 27 Section 8.2.5 Mpa Concrete, including mesh ref 395 No 37 No 38 Mpa Concrete, including mesh ref 395 No 37 No 38 Mpa Concrete, including mesh ref 395 No 37 No 38 Mpa Concrete, including mesh ref 395 No 37 No 38 Mpa Concrete, including mesh ref 395 No 38 Mpa Concrete	D9.1	8.2.2	1		No	2		
D9.4 8.2.2 200 mm dia flange adaptor	D9.1 D9.2	J						
D9.4 8.2.2 200 mm dia flange adaptor		822			No	2		
D9.5 250mm reflux valve, flanged, class25 No 1 Supply and install 210mm dia galvanised goose neck inlet pipe with 380mm height flanged both ends incl bolts, washers and nuts No 1  Leveldex float control valve including all fittings for connection 210mm diameter inlet 2  D10.1 1200GE 8.2.1 680mm x 980mm with lifting hooks, 25Mpa Concrete, including mesh ref 395 No 1 D10.3 8.2.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1 D10.4 8.2.5 630mm x 630mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 27  D11 1 1200L 8.2.2 Steel pipe specials for Air valve chamber, supply and installation  25mm dia flanged ball valve, class 25 No 13 D11.3 50mm dia flanged ball valve, class 25 No 12 D11.3 50mm dia flanged ball valve, class 25 No 12	-		1400 mm g hange adaptor for 400 mm g dPVC pipes		INO			
Supply and install 210mm dia galvanised goose neck inlet pipe with 380mm height flanged both ends incl botts, washers and nuts  Leveldex float control valve including all fittings for connection 210mm diameter inlet  D10 1200GE 8.2.1 D10.1 8.2.2 680mm x 980mm with lifting hooks, 25Mpa Concrete, including mesh ref 395 D10.2 8.2.3.1 980mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 D10.3 8.2.4 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 D10.4 8.2.5 630mm x 630mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 D10.4 8.2.5 630mm x 630mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 D11 1200L 8.2.2 D11.1 1200L 8.2.2 D11.1 200L Steel pipe specials for Air valve chamber, supply and installation 8.2.2 D11.1 2 25mm dia galvanised steel riser piece flanged, 400mm long 9 D11.2 25mm dia flanged ball valve, class 25 D11.3 50mm dia flanged ball valve, class 25 D11.3 No 12	D9.4	8.2.2	200 mm dia flange adaptor		No	1		
Interest of the process of the proce	D9.5		250mm reflux valve, flanged, class25		No	1		
Interest of the process of the proce	ı		Supply and install 210mm dia galvanised goose neck in	nlet pipe with 380mm height				
Description	D95.6			,	No	1		
Description			Leveldex float control valve including all fittings for co	nnection 210mm diameter				
82.1   82.2   680mm x 980mm with lifting hooks, 25Mpa Concrete, including mesh ref 395   No   7   980mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395   No   1   1   1   1   1   1   1   1   1	D9.					2		
82.1   82.2   680mm x 980mm with lifting hooks, 25Mpa Concrete, including mesh ref 395   No   7   980mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395   No   1   1   1   1   1   1   1   1   1	D10	1200GE	Precast concrete manhole covers ( To be manufacti	ured on site )				
D10.2 8.2.3.1 980mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 27  D10.4 8.2.5 630mm x 630mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 27  D11 1200L 8.2.2 Steel pipe specials for Air valve chamber, supply and installation 8.2.2  D11.1 25mm dia galvanised steel riser piece flanged, 400mm long No 9  25mm dia flanged ball valve, class 25 No 13  50mm dia flanged ball valve, class 25 No 12	D10.1				N -	_		
D10.3       8.2.4       670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395       No       4         D10.4       8.2.5       630mm x 630mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395       No       27         D11       1200L 8.2.2       Steel pipe specials for Air valve chamber, supply and installation       No       9         D11.1       25mm dia galvanised steel riser piece flanged, 400mm long       No       9         D11.2       25mm dia flanged ball valve, class 25       No       13         D11.3       50mm dia flanged ball valve, class 25       No       12	D10.1 D10.2							
D11   1200L   8.2.2   Steel pipe specials for Air valve chamber, supply and installation	D10.3	8.2.4	670mm x 670mm with lifting hooks, 25 Mpa Concrete, i	ncluding mesh ref 395	No	4		
8.2.2 25mm dia galvanised steel riser piece flanged, 400mm long No 9 D11.2 25mm dia flanged ball valve, class 25 No 13 D11.3 50mm dia flanged ball valve, class 25 No 12	D10.4	8.2.5	630mm x 630mm with lifting hooks, 25 Mpa Concrete, i	ncluding mesh ref 395	No	27		
D11.1 25mm dia galvanised steel riser piece flanged, 400mm long No 9 D11.2 25mm dia flanged ball valve, class 25 D11.3 50mm dia flanged ball valve, class 25 No 12	D11		Steel pipe specials for Air valve chamber, supply ar	d installation				
D11.2 25mm dia flanged ball valve, class 25 No 13 D11.3 50mm dia flanged ball valve, class 25 No 12	D11.1	0.2.2	25mm dia galvanised steel riser piece flanged. 400mm	long	No	9		
	D11.2		25mm dia flanged ball valve, class 25	=	No	13		
TOTAL CARRIED FORWARD	D11.3		50mm dia flanged ball valve, class 25		No	12		
TOTAL CARRIED FORWARD								
TOTAL CARRIED FORWARD								
	TOTAL C	ARRIED FOI	RWARD					

D11.4 D11.5 D12 D12.1	Clause	Brought Forward/ 25mm Vent o Mat air valve RBX series, 1/4 BSP test cock and end plug, flanged, class 25				
D11.5 D12						
D12 D12.1			No	13		
D12 D12.1		50mm dia Vent o Mat air valve RBX series, 1/4 BSP test cock and end plug, flanged, class 25	No	12		
D12.1	8.2.2 8.2.3.1	Steel Pipe specials for scour valve chamber, supply and install				
D12.2	8.2.4 8.2.5	110mm short radius bend galvanised, one end flanged 110mm upvc to 100mm galvanised steel adaptor	No No	2 2		
D13		Gravity Main to Ntile Village				
D13.1 D13.1.1 D13.1.2	1200GE	Precast concrete manhole covers (To be manufactured on site) 670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 680mm x 980mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No No	8 1		
	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D14.1 D14.2 D14.3		25mm dia galvanised steel pipe riser, 400mm long, screwed type 25mm dia screwefix ball valve, class 25 25mm dia Vent o Mat RBX series air valve, 1/4 BSP test cock connection and end plug, class 25	No No No	8 8 8		
D14.4		Leveldex float control valve including all fittings for connection on Atlas 10kl storage tank	No	1		
D14.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	6		
D15 D15.1	PSY 8-1	Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D15.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D15.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D15.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D16.1	SABS 1200 DB 8.3.2 PSD8-1 PSD8-2 PSD8-3	Gravity Main to Nozozo Village  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus material for pipe up to 63mm diameter for depths:				
D16.1.1	PSDB8-2 PSDB8-3 PSDB8-5	Over and Up to 0,0m 1,2m	m	200		
D16.1.2		1,2m 2,0m	m	1		Rate Only
D17		Extra over for item D16.1.1 and D16.1.2 hard rock excavations	m³	10		
D18 I	PSDB8-1	Treatment of trench bottoms to main pipelines Compaction of in-situ material	m²	133		
	8.3.3.1 8.3.2	Excavation extra's  Backfill by importation from commercial or off site sources selected by Contractor  Stockpile, on site bedding material from excavations	m³ m³	90 20		
D19.3	8.3.3.3	Compaction of road reserve to 95% MAMDD	m³	10		
D20	1200LB	Bedding				
ļ	8.2.1 PSLB8-1	Provision of bedding from excavations for flexible pipes:				
	PSLB8-2	Selected granular material	m³	20		
D20.1.2	0 2 2	Selected fill blanket	m³	48		
	8.2.3	Commercial sources ( Only when ordered by the Engineer) Selected granular material		5		
D20.1.4		Selected fill blanket	m³	5	<u> </u>	

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D21	1200L 8.2.1	Pipework				
D21.1	PSL8-1	Supply, lay, joint, bed and test pipes				
D21.1.1		63mm (uPVC Class 9)	m	100		
D22	1200L 8.2.2	Air valve chamber				
D22.1		Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40	No	1		
D23	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D23.1		670mm x 670mm with lifting hooks 25 Mpa concrete, including mesh ref 395	No	2		
D24	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D24.1	0.2.2	25mm dia galvanised steel riser pipe, 400mm long, screwfix	No	8		
D24.2		25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	8		
D24.3 D24.4		63 mm dia plain ended butterfly valve, class 16	No No	8 2		
D24.5		Leveldex float control valve including all fittings for connection on Atlas 10kl storage tank	No	1		
D25	PSY 8-1	Fencing				
D23	F31 6-1	-				
D25.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D25.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D25.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D25.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D26	PS11	Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved)	No	4		
D27		Gravity main to Gqubeni Village				
D28	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D28.1 D28.2		670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 680mm x 980mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No No	14 1		
D29	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D29.1	0.2.2	25mm dia galvanised steel riser pipe, 400mm long, screwfix	No	7		
D29.2		25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	10		
D29.3 D29.4		63mm dia plain ended butterfly valve class 16	No No	10 2		
D29.5		Leveldex float control valve including all fittings for connection on Atlas 10kl storage tank	No	1		
D30	PSY 8-1	Fencing				
D30.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D30.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D30.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D30.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D31		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	5		
D32		Gravity main to Ngqotsini Village				
D33	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D33.1		670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No	2		
D33.2		680mm x 980mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No	1		
TOTAL CARRIED FORWARD						

### SCHEDULE OF QUANTITIES

No.   Clause	
2.2   25mm dia galvanised steel riser pipe, 400mm long, screwfix	
25mm dia galvanised steel riser pipe, 400mm long, screwfix	
D34.4 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2  D34.4 63mm plain ended butterfly valve, class 16 No 2  D35.4 PSY 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  D35.1 Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post outside  D35.2 PSY 8-2 Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post outside  D35.3 PSY 8-3 Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside  D35.4 PSY 8-3 Supply and erect Y-standard post for 2,1m high fence galvanised inside and outside  D35.5 Supply and install 10kl potable water plastic tanks ( Alfas potable water tanks or similar approved )  D36.6 Gravity main to Mgugwane village  D37.1 PS11 Vent ( iffing rings, excavation, formwork and reinforcing as shown on Dig 121540 No 1  D38.1 1200GE Precast concrete manhole covers ( To be manufactured on site )  D38.1 650mm x 970mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 560mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D39.1 1200L Steel pipe specials for Air valve chamber, supply and installation 8.2.2  D39.1 220m Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D34.4 63mm plain ended butterfly valve, class 16 No 2  PSY 8-1 Fencing  Supply and erect 2.1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2.1m high double gate complete as per drawings with two gate post and straining post  Supply and erect 2.1m high double gate complete as per drawings with two gate post and straining post outside  D35.2 PSY 8-3 Supply and erect straining and corner post for 2.1m high fence galvanised inside and outside  D35.4 PSY 8-3 Supply and erect Y-standard post for 2.1m high fence  D35.5 Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )  D36.6 Gravity main to Mgugwane village  Air valve chamber  Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and einforcing as shown on Dig 1215/40 No 1  D38.1 1200GE Precast concrete manhole covers ( To be manufactured on site)  670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 5680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  Seel pipe specials for Air valve chamber, supply and installation  8.2.2 2  25mm dia ball valve screwfix class 16 No 2  25mm Went to Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
PSY 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post  No 1  Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside  No 6  Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside  No 2  Supply and erect y-standard post for 2,1m high fence Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar approved )  No 1  Gravity main to Mgugwane village  Air valve chamber  Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40  No 1  Precast concrete manhole covers ( To be manufactured on site )  670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395  No 3  D38.2  Constract air valve chamber, supply and installation  8.2.2  Steel pipe specials for Air valve chamber, supply and installation  8.2.2  25mm dia ball valve screwfix class 16  25mm dia ball valve screwfix class 16  25mm Vent to Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  No 2	
Supply and erect 2.1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2.1m high double gate complete as per drawings with two gate post and straining post outside  D35.3 PSY 8-3 Supply and erect Straining and corner post for 2.1m high fence galvanised inside and outside  No 6  D35.4 PSY 8-3 Supply and erect Y-standard post for 2.1m high fence  Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar approved )  No 1  Gravity main to Mgugwane village  D37 Air valve chamber  Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40 No 1  D38 1200GE Precast concrete manhole covers ( To be manufactured on site )  G70mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D39 1200L 8teel pipe specials for Air valve chamber, supply and installation 8.2.2  D39.1 25mm dia ball valve screwfix class 16 No 2	
D35.1   measured seperately)   m   38	
D35.2 PSY 8-2 and straining post  D35.3 PSY 8-3 Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside  D35.4 PSY 8-3 Supply and erect Y-standard post for 2,1m high fence  Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar approved )  D36.5 Gravity main to Mgugwane village  D37.1 PS11 Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40 No 1  D38.1 1200GE Precast concrete manhole covers (To be manufactured on site )  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D39.1 1200L 82.2 25mm dia ball valve screwfix class 16 No 2  25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D35.3 PSY 8-3 outside  D35.4 PSY 8-3 Supply and erect Y-standard post for 2,1m high fence  Supply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  D35.5 Supply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  D36 Gravity main to Mgugwane village  Air valve chamber  Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40  D38 1200GE Precast concrete manhole covers (To be manufactured on site)  D38.1 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395  No 1  Steel pipe specials for Air valve chamber, supply and installation  8.2.2 25mm dia ball valve screwfix class 16  No 2	
Supply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Supply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Sapply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Sapply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Sapply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Sapply and install 10kl potable water plastic tanks (Atlas potable water tanks or similar appoved)  No 1  Sapply and install 10kl potable water tanks or similar appoved in the simila	
D35.5   similar appoved )	
Air valve chamber  Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40 No 1  D38 1200GE Precast concrete manhole covers (To be manufactured on site)  D38.1 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D39 1200L 8.2.2 Steel pipe specials for Air valve chamber, supply and installation  8.2.2 25mm dia ball valve screwfix class 16 No 2  25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40 No 1  D38 1200GE Precast concrete manhole covers (To be manufactured on site)  D38.1 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Conrete, including mesh ref 395 No 1  D39 1200L Steel pipe specials for Air valve chamber, supply and installation 8.2.2  D39.1 25mm dia ball valve screwfix class 16 No 2  25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D37.1 PS11 vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40 No 1  D38 1200GE Precast concrete manhole covers (To be manufactured on site)  D38.1 670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 3  D38.2 680mm x 980mm with lifting hooks, 25 Mpa Conrete, including mesh ref 395 No 1  D39 1200L Steel pipe specials for Air valve chamber, supply and installation 8.2.2  D39.1 25mm dia ball valve screwfix class 16 No 2  25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D38.1   670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395   No   3	
D38.2 680mm x 980mm with lifting hooks, 25 Mpa Conrete, including mesh ref 395 No 1  D39 1200L 8.2.2 Steel pipe specials for Air valve chamber, supply and installation 8.2.2 25mm dia ball valve screwfix class 16 No 2  D39.1 D39.2 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D39 1200L 8.2.2 Steel pipe specials for Air valve chamber, supply and installation  D39.1 D39.2 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
D39.1   0.2.2   25mm dia ball valve screwfix class 16   No   2   25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16   No   2   2   25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16   No   2   2   2   2   2   2   2   2   2	
D39.1 25mm dia ball valve screwfix class 16 No 2 D39.2 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 No 2	
.	
D39.3 63mm plain ended butterfly valve, class 16 No 2	
D40 SABS EARTHWORKS	
D40.1 8.3.2 Excavation PSD8-1 Excavate in all materials, including backfill, compact and dispose of surplus PSD8-2 material for pipe up to 400mm diameter PSD8-3 for depths: PSD8-2 Over and Up to	
D40.1.1   PSDB8-3   0,0m   1,2m   m   250	
D40.1.2 1,2m 2,0m m 1 Rate Only	
D41 8.3.2(b) Extra over for item D40.1.1 and D40.1.2 hard rock excavations m <sup>3</sup> 20	
D42 PSDB8-1 Treatment of trench bottoms to main pipelines Compaction of in-situ material m² 166	
D43  Excavation extra's  8.3.3.1  Backfill by importation from commercial or off site sources selected by  Contractor  m² 171	
D44 8.3.2 Stockpile, on site bedding material from excavations m³ 20	
D45 8.3.3.3 Compaction of road reserve to 95% MAMDD m³ 30	
D46 1200LB Bedding	
8.2.1   PSLB8-1   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   Provision of bedding from excavations for flexible pipes:   PSLB8-2   PSLB8-	
TOTAL CARRIED FORWARD	

C2.1.5.12

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D46.1.1		Selected granular material	m³	42		
D46.1.2		Selected fill blanket	m³	98		
D47		Commercial sources ( Only when ordered by the Engineer)				
D47.1		Selected granular material	m³	21		
D47.2		Selected fill blanket	m³	49		
D48	1200L 8.2.1	Pipework				
D48.1	PSL8-1	Supply, lay, joint, bed and test pipes				
D48.1.1		63mm (uPVC Class 12)	m	250		
D49		Air valve chamber				
D49.1	PS11	Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40	No	1		
D50	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D50.1		670mm x 670mm with lifting hooks,25 Mpa Concrete, including mesh ref 395	No	3		
D50.2		680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395	No	1		
D60	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D60.1	0.2.2	25mm dia ball valve screwfix class 16	No	2		
D60.2		25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	2		
D60.3		63mm plain ended butterfly valve, class 16	No	2		
D61	PSY 8-1	Fencing				
D61.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	38		
D61.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	6		
D61.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	2		
D61.5	PS11	Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved)	No	1		
D62		Gravity main to Nyazi Village				
D63.1	SABS 1200 DB 8.3.2 PSD8-1 PSD8-2	EARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus material for pipe up to 400mm diameter				
D63.1.1	PSD8-3 PSDB8-2 PSDB8-3 PSDB8-5	for depths:           Over         and         Up to           0,0m         1,2m	m	300		
D63.1.2	1 2000-0	1,2m 2,0m	m	1		Rate only
D64	8.3.2(b)	Extra over for item D63.1.1 and D63.1.2 hard rock excavations	m³	20		
D65	PSDB8-1	Treatment of trench bottoms to main pipelines Compaction of in-situ material	m²	300		
D66	8.3.3.1	Excavation extra's  Backfill by importation from commercial or off site sources selected by Contractor	m³	206		
D67	8.3.2	Stockpile, on site bedding material from excavations	m³	25		
TOTAL CA	ARRIED FOR	WARD	ı		1	

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D68	8.3.3.3	Compaction of road reserve to 95% MAMDD	m³	30		
D69		Bedding				
D69.1	8.2.1 PSLB 8-1	Provision of bedding from excavations for flexible pipes:				
D69.1.1	PSLB 8-2	Selected granular material	m³	24		
D69.1.2		Selected fill blanket	m³	60		
D70	8.2.3	Commercial sources ( Only when ordered by the Engineer)				
D70.1		Selected granular material	m³	25		
D70.2		Selected fill blanket	m³	60		
D71	1200L	Pipework				
D71.1	8.2.1 PSL8-1	Supply, lay, joint, bed and test pipes				
D71.1.1		63mm (uPVC Class 12)	m	300		
D72	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D72.1		670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No	13		
D73	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D73.1	0.2.2	25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	8		
D73.2 D73.3		25mm dia galvanised steel riser pipe, 400mm long, screwfix	No	11		
D74	PSY 8-1	Fencing				
D74.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	38		
D74.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D74.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	6		
D74.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	2		
D75	1200G	Concrete encasement of pipe for river crossing				
D75.1		Place 25 Mpa/19mm concrete including excavations, formwork and backfilling as per Drg No 1215/45	No	1		
D75.2		Leveldex float control valve including all fittings for connection 100mm diameter inlet	No	1		
D76		Gravity main to Dukulweni Village				
D77	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D77.1		670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395	No	10		
D78	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D78.1		25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	7		
D78.2 D78.3		25 mm dia galvanised steel riser pipe, 400mm long, screwfix	No	7		
D79		Fencing				
D79.1		Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D79.2		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved)	No	6		
TOTAL	ADDIED FOR	DWARD	I .	I .	1	
TOTAL C	ARRIED FOR	NAMU				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
D80		Brought Forward/ Gravity main to Mbiza Village				
D81		Precast concrete manhole covers ( To be manufactured on site )				
D81.1	120002		No	17		
	1200L		110			
D82	8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D82.1		25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end pluq, Class 16	No	1		
D82.2		80mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16		1 17		
D82.3	40001	obilini venito wat RDA ali valve, 174 bor test cock conhected and end plug, class 10	NO	17		
D82.4	1200L 8.2.2	80mm plain ended butterfly valve, class 16	No	17		
D82.5		Leveldex float control valve including all fittings for connection on Atlas 10kl storage tank	No	1		
D83	PSY 8-1	Fencing				
		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates				
D83.1		measured seperately)	m	63		
D83.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
		Supply and erect straining and corner post for 2,1m high fence galvanised inside and				
D83.3	PSY 8-3	outside	No	10		
D83.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D83.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved)	No	6		
D84		Gravity Main to Taleni Village				
D85	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D85.1		670mm x 670mm with lifting hooks, 25 Mpa Concrete	No	9		
D86	1200L	Steel pipe specials for Air valve chamber, supply and installation				
D86.1	8.2.2	25mm dia ball valve screwfix class 16 25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	9		
D86.2 D86.3		25 mm dia galvanised steel riser pipe, 400mm long, screwfix	No	10		
D87	PSY 8-1	Fencing				
D87.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D87.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D87.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D87.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D87.5		Leveldex float control valve including all fittings for connection 100mm diameter inlet	No	1		
D88		Gravity main to Mswakazi village				
D89	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D89.1 D89.2			No No	2 1		
D90		Gravity main to Gemvale Village				
D91	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D91.1		670mm x 670mm with lifting hooks, 25 Mpa Concrete	No	2		
D92	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
TOTAL C	ARRIED FOR	eward	I	I		
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### SCHEDULE OF QUANTITIES

Item	Payment	Short Description	Unit	Quantity	Rate	Amount
No.	Clause					R
		Brought Forward/				
D92.1 D92.2			No No	1 2		
D92.3		80mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	1		
D93 D93.1	PSY 8-1	Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D93.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D93.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D93.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D95		Gravity to Mpato Village				
D96	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D96.1		670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395	No	2		
D97		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	6		
D98		Gravity main to Lukhethe Villege				
D99		Air valve chamber				
D99.1		Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40	No	1		
D100	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D100.1		670mm x 670mm with lifting hooks,25 Mpa Concerte, including mesh ref 395	No	3		
D101		1400mm precast manhole ring, 300mm high	No	1		
D102		Steel pipe specials for Air valve chamber, supply and installation				
D102.1 D102.2		25mm dia ball valve screwfix class 16 25mm dia galvanised steel riser pipe, 400mm long, screwfix	No No	2 2		
D102.3		25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	2		
D103	1200G	Reservoir Platform				
D103.1		Construct reservoir platform 6000mm x 8000mm complete with all excavations compaction of in situ material formwork, 25 Mpa concrete, 200mm thick with a double layer of mesh 245	No	1		
D104	PSY 8-1	Fencing				
D104.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D104.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D104.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D104.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D104.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved)	No	6		
D105		Gravity main to Kububile village				
D106		620mm dia precast concrete manhole cover	No	3		
D107	1200GE	Precast concrete manhole covers ( To be manufactured on site)				
D107.1		680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395	No	1		
D108	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply and installation				
D108.1		25mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16	No	2		
TOTAL SE	ECTION D C	ARRIED TO SUMMARY				

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D109.3 PSY 6 D109.4 PSY 6 D109.5 D110 D111.1 12001 8.2.2 D111.1 D111.2 SABS PSDE PSDE PSDE PSDE PSDE PSDE PSDE D112.1.1 PSDE PSDE D112.1.1 PSDE D112.2 D113 8.3.2( D114 PSDE D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12001 8.2.1 PSLB PSDE	Fe Summer	encing upply and erect 2,1m high fencing complete as per the drawings ( post and gates reasured seperately) upply and erect 2,1m high double gate complete as per drawings with two gate post and straining post upply and erect straining and corner post for 2,1m high fence galvanised inside and utside upply and erect Y-standard post for 2,1m high fence eveldex float control valve including all fittings for connection 100mm diameter inlet eveldex float control valve including all fittings for connection 100mm diameter inlet eveldex float control valve chamber, supply and installation  Simulation  Simulation  Simulation  Simulation  Simulation  ARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depths:  Ever and Up to  1,2m  2,0m		63 1 10 4 1		
D1109.1 D109.2 D109.3 D109.3 D109.4 D109.5 D110 D111.1 D111.2 D112 D112.1 D112.1 D112.1 D112.2 D112.1 D113 B.3.1 PSDE PSDE D112.1 D114 D115 B.3.3 D116 B.3.2 D117 B.3.3 D118 D118.1 D118.1	Fe Summer	encing upply and erect 2,1m high fencing complete as per the drawings ( post and gates neasured seperately)  upply and erect 2,1m high double gate complete as per drawings with two gate post not straining post  upply and erect straining and corner post for 2,1m high fence galvanised inside and utside  upply and erect Y-standard post for 2,1m high fence galvanised inside and utside  upply and erect Y-standard post for 2,1m high fence  eveldex float control valve including all fittings for connection 100mm diameter inlet stravity Main to Nkomaze Village  teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  Omm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depths:  Ever and Up to  1,2m	No No No No	1 10 4 1		
D1109.1 D109.2 D109.3 D109.3 D109.4 D109.5 D110 D111.1 D111.2 D112 D112.1 D112.1 D112.1 D112.2 D112.1 D113 B.3.1 PSDE PSDE D112.1 D114 D115 B.3.3 D116 B.3.2 D117 B.3.3 D118 D118.1 D118.1	Sume SY 8-2 an out SY 8-3 Su Le Gr OOL St. 2.2 25 80 80 80 81.1 Ex 108-3 for 108-2 gr 108-3 for 108-2 gr 108-3 for 108-5 1,2 108-8 1,2 1	supply and erect 2,1m high fencing complete as per the drawings ( post and gates leasured seperately)  supply and erect 2,1m high double gate complete as per drawings with two gate post nd straining post  supply and erect straining and corner post for 2,1m high fence galvanised inside and subside usupply and erect training and corner post for 2,1m high fence galvanised inside and subside usupply and erect Y-standard post for 2,1m high fence  eveldex float control valve including all fittings for connection 100mm diameter inlet stravity Main to Nkomaze Village  teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  Omm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus staterial for pipe up to 400mm diameter or depths:  Ever and Up to  1,2m	No No No No	1 10 4 1		
D109.3 PSY 6 D109.4 PSY 6 D109.5 D110 D111 12000 8.2.2 D111.1 D111.2 D112 SABS 1200 D112.1 8.3.1 PSDE PSDE PSDE PSDE PSDE PSDE D112.1 PSDE D112.1 8.3.2 D114 PSDE D115 8.3.3 D116 8.3.2 D117 8.3.3 D118 12000 8.2.1 PSLB PSLB	Superson Sup	nd straining post  upply and erect straining and corner post for 2,1m high fence galvanised inside and utside  upply and erect Y-standard post for 2,1m high fence  eveldex float control valve including all fittings for connection 100mm diameter inlet  stravity Main to Nkomaze Village  Iteel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  Omm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus Inderial for pipe up to 400mm diameter  or depths:  Ever and Up to  Om 1,2m	No No No No	10 4 1		
D1109.4 PSY 8 D109.5 D1110 D1111 12001 8.2.2 D111.1 D111.2 SABS 1200 D112.1 8.3.1 PSDE PSDE PSDE PSDE PSDE PSDE D112.2.1 8.3.2( D114 PSDE D112.2 D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12001 BD118.1 PSLB PSLB	St.	uupply and erect Y-standard post for 2,1m high fence eveldex float control valve including all fittings for connection 100mm diameter inlet stavity Main to Nkomaze Village teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 0mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 ARTHWORKS  Excavation Excavate in all materials, including backfill, compact and dispose of surplus laterial for pipe up to 400mm diameter or depths: Ever and Up to	No No No	1 2		
D1109.5 D110 D1111 D111.2 D1112 D1112 D1112 D112.1 D112.1 D112.1 D112.1 D113 B.3.1 PSDE PSDE PSDE D112.1 D114 PSDE D115 B.3.3 D116 B.3.2 D117 B.3.3 D116 B.3.2 D118 D118.1	Le Gr	eveldex float control valve including all fittings for connection 100mm diameter inlet  bravity Main to Nkomaze Village  teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  0mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Xcavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter  or depths:  Ever and Up to  1,2m	No No	2		
D110 D111 D111.1 D111.2 D112 D112 D112.1 D112.1 D112.1 D112.1 D112.1 D113 B.3.1 PSDE PSDE PSDE D112.1 D114 PSDE D115 B.3.3 D116 B.3.2 D117 B.3.3 D118 D118.1 D118.1	GE	teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  0mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter  or depths:  Ever and Up to  1,2m	No No	2		
D111.1 12001 8.2.2 D111.1 D111.2 SABS 1200 8.3.1 PSDE PSDE PSDE PSDE D112.1.1 PSDE PSDE D112.2 D113 8.3.2 D114 PSDE D115 8.3.3 D116 8.3.2 D117 8.3.3 D118 12001 8.2.1 PSLB PSLB	00L St. 2.2 25 80 80 BS 00 DB 8.3 Ex. 20 90 DB 1.1 Ex. 20 90 DB 1.2 Ex. 20	teel pipe specials for Air valve chamber, supply and installation  5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  0mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  .xcavation  .xcavation  .xcavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter  or depths:  liver and Up to  .0m 1,2m	No			
D111.1 SABS 1200 D112.1 PSDE PSDE PSDE D112.2 D114 PSDE D114.1 PSDE D115 8.3.3 D116 8.3.2 D117 8.3.3 D118 12001 8.2.1 PSLB PSLB PSLB	25 80 BS 60 DB 1.1 Ex 60 BS 60 DB 1.1 Ex 60 DB 1.2 DB 1.2 DB 1.2 Fib. BB 1.2 DB 1.3 for 60 DB 1.2 DB 1.3 for 60 DB 1.3 Side BB	5mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 0mm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16 ARTHWORKS Excavation Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depths: Excever and Up to Except 1,2m	No			
D111.2 SABS 1200	80 BS	Omm Vent o Mat RBX air valve, 1/4 BSP test cock connected and end plug, Class 16  ARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter  or depths:  Ever and Up to  1,2m	No			
D112 SABS 1200 S	BS 600 DB 3.1 Ex 6D8-1 Ex 6D8-2 ma 6D8-2 OV 6D8-3 6DB8-3 6DB8-5 1,2	ARTHWORKS  Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depths:  Ever and Up to  1,2m		1		
D112.1   1200   8.3.1   PSDE	00 DB 3.1 Ex 6D8-1 Ex 6D8-2 ma 6DB8-2 Ov 6DB8-3 0,0 6DB8-5 1,2 3.2(b) Ex	Excavation  Excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depths:  Ever and Up to 1,2m	m			
D112.1 8.3.1 PSDE PSDE PSDE PSDE PSDE PSDE PSDE D112.2 8.3.2( D114 PSDE D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12000 8.2.1 PSLB PSLB	8.1 Ex 6D8-1 Ex 6D8-2 ma 6D8-3 for 6D8-3 Ov 6DB8-3 0.0 6DB8-5 1,2	excavate in all materials, including backfill, compact and dispose of surplus naterial for pipe up to 400mm diameter or depthis: liver and Up to 0,0m 1,2m	m			
D112.1.1 PSDE PSDE D112.2 PSDE D112.2 PSDE D113 8.3.2( D114 PSDE D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12001 8.2.1 PSLB PSLB	3.2(b) Ex	,0m 1,2m	m	i .		1
D112.2 D113 8.3.2( D114 PSDE D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12000 8.2.1 PSLB PSLB	1,2 3.2(b) Ex	,2m 2,0m	'''	100		
D114 PSDE D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12001 8.2.1 PSLB PSLB			m	1		Rate Only
D115 8.3.3. D116 8.3.2 D117 8.3.3. D118 12000 8.2.1 PSLB PSLB		xtra over for item D112.1.1 and D112.1.2 hard rock excavations	m³	10		
8.3.3. D116 8.3.2 D117 8.3.3. D118 12000 8.2.1 PSLB PSLB	DB8-1 Tr	reatment of trench bottoms to main pipelines				
8.3.3. D116 8.3.2 D117 8.3.3. D118 12000 8.2.1 PSLB PSLB	Co	compaction of in-situ material	m²	100		
D117 8.3.3. D118 12001 8.2.1 PSLB D118.1 PSLB		Excavation extra's ackfill by importation from commercial or off site sources selected by Contractors	m³	69		
D118 1200L 8.2.1 PSLB D118.1 PSLB	3.2 Sto	otockpile, on site bedding material from excavations	m³	17		
8.2.1 PSLB D118.1 PSLB	3.3.3 Co	compaction of road reserve to 95% MAMDD	m³	10		
PSLB PSLB	00LB Be	sedding				
D118.1 PSLB		rovision of bedding from excavations for flexible pipes:				
		elected granular material	m³	7		
D118.2	Se	elected fill blanket	m³	10		
0119 8.2.3	2.3 Co	commercial sources ( Only when ordered by the Engineer)				
D119.1	Se	elected granular material	m³	10		
D119.2	Se	elected fill blanket	m³	30		
D120 1200I	00L Pi	ipework				
8.2.1 PSL8		supply, lay, joint, bed and test pipes				
D120.1	63	3mm (uPVC Class 12)	m	100		
D121 PSY	SY 8-1 <b>Fe</b>	encing				
D121.1	Su	upply and erect 2,1m high fencing complete as per the drawings ( post and gates leasured seperately)	m	38		
D121.2 PSY 8	Su SY 8-2 an	upply and erect 2,1m high double gate complete as per drawings with two gate post nd straining post	No	1		
D121.3 PSY		upply and erect straining and corner post for 2,1m high fence galvanised inside and utside	No	6		
D121.4 PSY 8	SY 8-3 Su	supply and erect Y-standard post for 2,1m high fence	No	2		
0121.5		eveldex float control valve including all fittings for connection 100mm diameter inlet	No	1		
	Le	5 5	1 .10	'	<u> </u>	

Item No.	Payment Clause	Short Description		Unit	Quantity	Rate	Amount R
		Bassahé Farssadi					
L		Brought Forward/					
D122		Gravity main to Noghekwane village					
D123	SABS 1200 DB	EARTHWORKS					
	8.3.1 PSD8-1	Excavation Excavate in all materials, including backfill, compact a	nd dispose of surplus				
	PSD8-2 PSD8-3	material for pipe up to 400mm diameter for depths:					
D123.1	PSDB8-2 PSDB8-3	Over and 0,0m	Up to 1,2m	m	400		
D123.2	PSDB8-5	1,2m					Rate Only
D123.2			2,0m	m	1		Rate Only
	8.3.2(b)	Extra over for item D123.1.1 and D123.1.2 hard rock ex	xcavations	m³	10		
D124		Treatment of trench bottoms to main pipelines Compaction of in-situ material		m²	400		
D125		Excavation extra's Backfill by importation from commercial or off site sour	cas selected by Contractor	m³	275		
D425.4			ces selected by Contractor		30		
D125.1		Stockpile, on site bedding material from excavations		m³			
D125.2		Compaction of road reserve to 95% MAMDD		m³	10		
D126	1200LB	Bedding					
D126.1	8.2.1 PSLB8-1	Provision of bedding from excavations for flexible pipe	s:				
D126.1.1	PSLB8-2	Selected granular material		m³	20		
D126.1.2		Selected fill blanket		m³	59		
D127	8.2.3	Commercial sources ( Only when ordered by the Engin	eer)				
D127.1		Selected granular material		m³	46		
D127.2		Selected fill blanket		m³	100		
D128	1200L 8.2.1	Pipework					
D128.1	PSL8-1	Supply, lay, joint, bed and test pipes					
D128.1.1		63mm (uPVC Class 12)		m	400		
D129	1200L 8.2.2	Steel pipe specials for Air valve chamber, supply ar	nd installation				
D129.1		25mm Vent o Mat RBX air valve, 1/4 BSP test cock co	nnected and end plug, Class 16	No	2		
D129.2	1200GE	650mm dia precast concrete cover		No	2		
D130	PSY 8-1	Fencing					
D130.1		Supply and erect 2,1m high fencing complete as per th measured seperately)	e drawings ( post and gates	m	63		
D130.2	PSY 8-2	Supply and erect 2,1m high double gate complete as p and straining post	er drawings with two gate post	No	1		
D130.3	PSY 8-3	Supply and erect straining and corner post for 2,1m hig outside	gh fence galvanised inside and	No	6		
D130.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence		No	2		
D130.5		Leveldex float control valve including all fittings for con	nnection 100mm diameter inlet	No	1		
D131		Gravity Main to Mfihlela Village					
D132	1200GE	Precast concrete manhole covers ( To be manufact	ured on site )				
D132.1		680mm x 980mm with lifting hooks,25 Mpa concrete,	including mesh ref 395	No	1		
D133	SABS 1200 DB	EARTHWORKS					
TOTAL SI	ECTION D C	ARRIED FORWARD					

1,000   1,00	Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
Processor in all manusians, instituting baseds. Lace agrees and suppose of surplane   Processor in all manusians (instituting baseds)   10			Brought Forward/				
Display   Disp		PSD8-1 PSD8-2 PSD8-3	Excavate in all materials, including backfill, compact and dispose of surplus material for pipe up to 400mm diameter for depths:				
1.2m	D133.1	PSDB8-3		m	60		
PS08-1 Treatment of french bottoms to main pipelines Compaction of in-sub material Compaction Compaction of in-sub material Compaction Compact	D133.2	PSDB8-5	1,2m 2,0m	m	1		Rate only
Compaction of notation makeral  Execution subtract  Secution subtract	D133.3	8.3.2(b)	Extra over for item D133.1 and D133.2 hard rock excavations	m³	5		
3.3.1   Savidity importation from commenciate or of field expurses selected by Contractor   m²   41	D134	PSDB8-1		m²	60		
10.13.1   2.1	D135	8.3.3.1		m³	41		
10138 1.2 01.8 1 10138 1.7 02.8 1 10138	D136	8.3.2	Stockpile, on site bedding material from excavations	m³	10		
D138.1   S.2.1   Provision of bedding from excavations for flexible pipes.   Selected   Provision of bedding from excavations for flexible pipes.   Selected   Sele	D137	8.3.3.3	Compaction of road reserve to 95% MAMDD	m³	10		
D138.1.1 PSUB9.2 Selected granular material material m² 14  D138.1.2 Selected fill blanket material m² 14  D138.1.3 8.2.3 Commercial sources (Only when ordered by the Engineer)  D138.1.4 Selected granular material m² 5  Selected granular material m² 5  Selected granular material m² 10  D138.1.5 Selected granular material m² 10  D139.1 1200.  D140 PSV 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings (post and gates measured separately)  D140 PSV 8-2 Septy and sered 2,1m high fencing complete as per drawings with two gate post and straining post  D140.1 PSV 8-3 Supply and erect 2,1m high fencie galvanised inside and oxidate  D140.2 PSV 8-3 Supply and erect 2,1m high fence  D140.5 Supply and erect 2,1m high fence  D140.6 Supply and erect 2,1m high fence  D141.1 PSV 8-2 Supply and erect 2,1m high fence  D141.1 PSV 8-2 Supply and erect 2,1m high fence  D141.1 PSV 8-2 Supply and erect 2,1m high fence  D141.1 PSV 8-2 Supply and erect 2,1m high fence experience on the experience in t	D138	1200LB	Bedding				
D138.1.1 PSLB8.2 Selected fill blanket  M* 10  D138.1.5 Selected fill blanket  M* 10  D138.1.5 Selected fill blanket  D139.1.7 PSL8.8 Supply, lay, pint, bed and test pipes  Supply and orrect 2, I'm high fencing complete as per the drawings (post and gates measured separately)  D140.1 PSV 8.1 Supply and orrect 2, I'm high fencing complete as per drawings with two gate post and sales and sales and sales are selected fill blanket  D140.2 PSV 8.3 Supply and erect 2, I'm high fencing complete as per drawings with two gate post and sales are selected fill blanket  D140.3 PSV 8.3 Supply and erect 2, I'm high fencing for connection 100mm diameter inlet  D140.5 Leveldex float control valve including all fittings for connection 100mm diameter inlet  D140.5 Supply and erect 2, I'm high Single gate complete as per drawings with two gate post and straining post  1014.1 PSV 8.2 Supply and erect 2, I'm high fence galvanised inside and outside  D140.5 Leveldex float control valve including all fittings for connection 100mm diameter inlet  D140.6 Supply and erect 2, I'm high fence galvanised with two gate post and straining post  Leveldex float control valve including all fittings for connection 100mm diameter inlet  D141.1 PSV 8.2 Supply and erect 2, I'm high fings for connection 100mm diameter inlet  D142.1 Carvity no luntwent Village  D142.1 Supply and erect 2, I'm high fings for connection 100mm diameter inlet  D142.1 Supply and erect 3, I'm high fings for connection 100mm diameter inlet  D142.1 Supply and erect 2, I'm high fencing complete as per drawings with two gate post  and straining post  T supply and erect 2, I'm high fencing complete as per drawings with two gate post  and straining post  T supply and erect 2, I'm high fencing complete as per the drawings (post and gates measured separates)  B supply and erect 2	D138.1		Provision of bedding from excavations for flexible pipes:				
D138.1.3 3.2.3 Commercial sources (Chy when ordered by the Engineer)  Selected granular material  Selected granular material  Selected fill blanket  D138.1.5 Commercial sources (Chy when ordered by the Engineer)  Poly 1.0 Commercial sources (Chy when ordered by the Engineer)  Selected fill blanket  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  Poly 1.0 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D139.1.1 Commercial sources (Chy when ordered by the Engineer)  D140.1 Commercial sources (Chy when ordered by the Engineer)  D140.1 Commercial sources (Chy when ordered by the Engineer)  D140.2 PSY 8-1 Supply and erect 2.1 migh fencing complete as per drawings (post and gates managed separated)  D140.3 PSY 8-2 Supply and erect 2.1 migh double gate complete as per drawings with two gate post and strawing post for a commercial sources (Chy when ordered to the Engineer)  D140.3 Supply and erect 2.1 migh Single gate complete as per drawings with two gate post and strawing post with interest posts, 25 kpp Commercial not post post and strawing post and strawing post with lifting books, 25 kpp Concrete, including meth ref 395  D143.1 PSY 8-2 PSY 8-2 Supply and erect 2.1 migh double gate complete as per drawings with two gate post post and strawing post with lifting books, 25 kpp Concrete, including meth ref 395  D143.1 PSY 8-2 PSY 8-2 Supply and erect 2.1 migh double gate complete as per drawings with two gate post post and strawing post with lifting books, 25 kpp Concrete, including meth ref 395  D143.1 PSY 8-2 PSY 8-2 Supply and erect 2.1 migh double gate co	D138.1.1		Selected granular material	m³	5		
Selected granular material   m²   5	D138.1.2		Selected fill blanket	m³	14		
Selected fill blanket   m*   10	D138.1.3	8.2.3	Commercial sources (Only when ordered by the Engineer)				
D139 1200L 8.2.1   D139.1.1   P58.8-1   Supply, and erect 2, 1m high fencing complete as per the drawings (post and gates measured seperately)  D140.1   PSY B-1   Fancing Supply and erect 2, 1m high fencing complete as per drawings with two gate post and straining post supply and erect 2, 1m high fencing complete as per drawings with two gate post and straining post supply and erect 2, 1m high fencing complete as per drawings with two gate post and straining post supply and erect straining and comer post for 2, 1m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised inside and sudiscide supply and erect 4.5 m high fence galvanised supply and erect 4.5 m high fence galvanised supply and erect 4.5 m high	D138.1.4		Selected granular material	m³	5		
B 2-1 Supply, lay, joint, bed and test pipes    Supply, lay, joint, bed and test pipes   Supply, lay, joint, bed and test pipes	D138.1.5		Selected fill blanket	m³	10		
D139.1.1   PSI.8-1   Supply, lay, joint, bed and test pipes	D139	1	Pipework				
D140.1 PSY 8-1 Fencing Supply and erect 2.1m high fencing complete as per the drawings (post and gates measured seperately)  D140.2 PSY 8-2 Supply and erect 2.1m high double gate complete as per drawings with two gate post and straining post Supply and erect 2.1m high double gate complete as per drawings with two gate post and straining post Supply and erect 2.1m high fence galvanised inside and outside  No 10  PSY 8-3 Supply and erect 2.1m high fence galvanised inside and outside Leveldex float control valve including all fittings for connection 100mm diameter inlet Supply and install concrete reservoir breather vents, No 3  D140.5 PSY 8-2 Supply and erect 2.1m high Single gate complete as per drawings with two gate post Supply and erect 2.1m high Single gate complete as per drawings with two gate post and straining post  Leveldex float control valve including all fittings for connection 100mm diameter inlet Leveldex float control valve including all fittings for connection 100mm diameter inlet  D141.1 PSY 8-2 Supply and erect 2.1m high Single gate complete as per drawings with two gate post and straining post  1 Leveldex float control valve including all fittings for connection 100mm diameter inlet  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Precast concrete manhole covers (To be manufactured on site)  Gravity main to Nggondwana Village  Preca	D139.1		Supply, lay, joint, bed and test pipes				
D140.1 Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  D140.2 PSY 8-2 Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post and straining post.  D140.3 PSY 8-3 Supply and erect straining and comer post for 2,1m high fence galvanised inside and outside.  D140.4 PSY 8-3 Supply and erect V-standard post for 2,1m high fence  D140.5 Levelidex float control valve including all fittings for connection 100mm diameter inlet.  D140.6 Supply and install concrete reservoir breather vents,  Supply and install concrete reservoir breather vents,  No 3  Gravity to Umtweni Village  Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post.  Leveldex float control valve including all fittings for connection 100mm diameter inlet.  D141.1 PSY 8-2  D141.2 Leveldex float control valve including all fittings for connection 100mm diameter inlet.  D142.1 Leveldex float control valve including all fittings for connection 100mm diameter inlet.  D142.1 Leveldex float control valve including all fittings for connection 100mm diameter inlet.  D142.1 1200GE Precast concrete manhole covers (To be manufactured on site)  G70mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395  No 1  D143.1 PSY 8-1 Facing  Supply and erect 2, 1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2, 1m high fencing complete as per the drawings ( post and gates measured seperately)  No 1	D139.1.1		63mm (uPVC Class 12)	m	60		
D140.1   measured seperately)   m   63   Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post   No	D140	PSY 8-1	Fencing				
D140.2 PSY 8-2 and straining post D140.3 PSY 8-3 Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside D140.4 PSY 8-3 Supply and erect Y-standard post for 2,1m high fence D140.5 Leveldex float control valve including all fittings for connection 100mm diameter inlet D140.6 Supply and install concrete reservoir breather vents, D141.1 PSY 8-2 Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post D141.1 PSY 8-2 In Exercise Concrete manhole covers (To be manufactured on site) D142.1 1200GE D142.1 1200GE D142.1 Freest concrete manhole covers (To be manufactured on site) D142.1 1 Forms 70mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 D142.1 PSY 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings (post and gates measured seperately) D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post measured seperately) D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post measured seperately) D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post and straining post D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post and straining post D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post and straining post D143.2 PSY 8-2 In high double gate complete as per drawings with two gate post and straining post	D140.1			m	63		
D140.3 PSY 8-3 outside No 10 D140.4 PSY 8-3 Supply and erect Y-standard post for 2,1m high fence No 4  Leveldex float control valve including all fittings for connection 100mm diameter inlet No 1 D140.6 Supply and install concrete reservoir breather vents, No 3  D141	D140.2	PSY 8-2		No	1		
D140.5 Leveldex float control valve including all fittings for connection 100mm diameter inlet  D140.6 Supply and install concrete reservoir breather vents,  No  3  D141 Gravity to Umtweni Village  Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post  1  D141.1 PSY 8-2  Leveldex float control valve including all fittings for connection 100mm diameter inlet  No  1  D141.2 Leveldex float control valve including all fittings for connection 100mm diameter inlet  D142.1 Gravity main to Ngqondwana Village  D142.1 1200GE Precast concrete manhole covers (To be manufactured on site)  D142.1.1 670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395  No  1  PSY 8-1  Fancing  Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2,1m high fencing complete as per drawings with two gate post and straining post  No  1	D140.3	PSY 8-3		No	10		
D140.6 Supply and install concrete reservoir breather vents, D141 Gravity to Umtweni Village Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post  D141.1 PSY 8-2 Leveldex float control valve including all fittings for connection 100mm diameter inlet D142 Gravity main to Ngqondwana Village D142.1.1 1200GE Precast concrete manhole covers (To be manufactured on site) D142.1.2 670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 No 1 D142.1.2 Fencing Supply and erect 2,1m high fencing complete as per the drawings (post and gates measured seperately) D143.1 PSY 8-2 and straining post  No 1 Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post No 1	D140.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D141.1 PSY 8-2 Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post  Leveldex float control valve including all fittings for connection 100mm diameter inlet  D142.1 1200GE Precast concrete manhole covers (To be manufactured on site)  D142.1.1 670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 No 1  D142.1.2 PSY 8-1 Pencing Supply and erect 2,1m high fencing complete as per the drawings (post and gates measured seperately)  D143.1 PSY 8-2 PSY	D140.5		Leveldex float control valve including all fittings for connection 100mm diameter inlet	No	1		
Supply and erect 2,1m high Single gate complete as per drawings with two gate post and straining post  Leveldex float control valve including all fittings for connection 100mm diameter inlet  D142.1 200GE  Precast concrete manhole covers (To be manufactured on site)  Foromm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395  No 1  680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395  No 1  PSY 8-1  Fencing Supply and erect 2,1m high fencing complete as per the drawings (post and gates measured seperately)  Mo 1  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post  No 1	D140.6		Supply and install concrete reservoir breather vents,	No	3		
D141.1 PSY 8-2 and straining post  Leveldex float control valve including all fittings for connection 100mm diameter inlet  No  1  Gravity main to Ngqondwana Village  D142.1 1200GE Precast concrete manhole covers (To be manufactured on site)  670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 No  1  D142.1.2 Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  No  1  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post  No  1	D141		Gravity to Umtweni Village				
D142.1 1200GE Precast concrete manhole covers (To be manufactured on site)  D142.1.1 670mm x 670mm with lifting hooks, 25 Mpa concrete, including mesh ref 395 No 1  D142.1.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D143.1 PSY 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately) m 63  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post No 1	D141.1	PSY 8-2			1		
D142.1.1   1200GE   Precast concrete manhole covers (To be manufactured on site )	D141.2		Leveldex float control valve including all fittings for connection 100mm diameter inlet	No	1		
D142.1.1 D142.1.2 D142.1.2 D143.1 D143.1 D143.2 D143.2 D143.2 D143.2 D143.1 D143.1 D143.1 D143.2 D143.2 D143.1 D143.2 D14	D142		Gravity main to Ngqondwana Village				
D142.1.2 680mm x 980mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395 No 1  D143 PSY 8-1 Fencing Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately) m 63  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post No 1	D142.1	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)  Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post  No 1	D142.1.1 D142.1.2						
Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post No 1	D143 D143.1	PSY 8-1	Supply and erect 2,1m high fencing complete as per the drawings ( post and gates	m	63		
TOTAL SECTION D CARRIED CORMADD	D143.2	PSY 8-2					
THE RESIDENCE OF THE PROPERTY	TOTAL	ECTION D.C	APPIED ECHWAPD				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
		Supply and erect straining and corner post for 2,1m high fence galvanised inside and				
D143.3	PSY 8-3	outside	No	10		
D143.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or	No	4		
D143.5		similar appoved)	No	5		
D144		Gravity main to Xhutha Village				
D145	1200L	Air valve chamber				
D145.1	8.2.2	Constract air valve chamber complete with manhole frame and concrete cover, air vent, lifting rings, excavation, formwork and reinforcing as shown on Drg 1215/40	No	1		
D146	1200G	Reservoir Platform				
D146.1		Construct reservoir platform 6000mm x 8000mm complete with all excavations, compaction of in situ material formwork, 25 Mpa concrete, 200mm thick with a double layer of mesh 245	No	1		
D147	1200GE	Precast concrete manhole covers ( To be manufactured on site )		_		
D147.1		670mm x 670mm with lifting hooks, 25 Mpa Concrete, including mesh ref 395	No	2		
D148	PSY 8-1	Fencing				
D148.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D148.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D148.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D148.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D148.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	6		
D149		Gravity Main to Pitsini Village				
D150	1200GE	Precast concrete manhole covers ( To be manufactured on site )				
D150.1 D150.2		670mm x 670mm with lifting hooks, 25 Mpa Conrete, including mesh ref 395 680mm x 980mm with lifting hooks , 25 Mpa Conrete, including mesh ref 395	No No	2		
D151	PSY 8-1	Fencing				
D151.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	63		
D151.2	PSY 8-2	Supply and erect 2,1m high double gate complete as per drawings with two gate post and straining post	No	1		
D151.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	10		
D151.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	4		
D151.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	6		
D152		Gravity main to Gqubeni 1				
D153	PSY 8-1	Fencing				
D153.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	38		
D153.2	PSY 8-2	Supply and erect 2,1m high single gate complete as per drawings with two gate post and straining post	No	1		
D153.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	6		
D153.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	2		
D153.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar appoved )	No	1		
D154		Gravity main to Gqubeni 2				
D155	PSY 8-1	Fencing				
D155.1		Supply and erect 2,1m high fencing complete as per the drawings ( post and gates measured seperately)	m	38		
TOTAL SI	ECTION D C	ARRIED FORWARD	•	•		

### SCHEDULE OF QUANTITIES

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D155.2	PSY 8-2	Supply and erect 2,1m high single gate complete as per drawings with two gate post and straining post	No	1		
D155.3	PSY 8-3	Supply and erect straining and corner post for 2,1m high fence galvanised inside and outside	No	6		
D155.4	PSY 8-3	Supply and erect Y-standard post for 2,1m high fence	No	2		
D155.5		Supply and install 10kl potable water plastic tanks ( Atlas potable water tanks or similar approved )	No	1		
D155.6		Leveldex float control valve including all fittings for connection on Atlas 10kl storage tank	No	18		
D155.7	PSDB 8-1 8.3.1	Clear and grub including bush clearing as ordered by the Engineer	m²	4500		
D155.8		Supply and install 100mm dia galvanised goose neck inlet pipe with 580mm height flanged both ends incl bolts, washers and nuts	No	6		
D155.9		Access road to the River abstraction, Water Treatment Works, Process controller quarters and village reservoirs				
D155.9.1		Regravelling and construction of acces roads wih a 150mm G5 gravel layer compacted 95% MAMMD, 5m wide	m	4000		
D156		INTERNAL RETICULATION ALL AREAS				
D157	SABS	EARTHWORKS				
D157.1	1200 DB 8.3.1 PSD8-1	Excavation				
	PSD8-2 PSD8-3 PSDB8-2	Excavate in all materials, including backfill, compact and dispose of surplus material for pipe up to 90mm diameter for flexible pipes.				
	PSDB8-3 PSDB8-5	for depths:				
D157.1.1		Over         and         Up to           0,0m         1,0m	m	2400		
D157.1.2	8.3.2(b)	Extra over for item D157.1 hard rock excavations	m³	10		
D158		Treatment of trench bottoms to main pipelines				
D158.1	PS11	Compaction of in-situ material 93% MAMDD	m²	1440		
D159		Excavation extra's				
D159.1	PS11	Backfill by importation from commercial or off site sources selected by Contractor	m³	400		
D159.2		Stockpile, on site bedding material from excavations	m³	150		
D159.3		Compaction of road reserve to 95% MAMDD	m³	20		
D160	1200LB	Bedding				
D160.1	8.2.1 PSLB8-1	Provision of bedding from excavations for flexible pipes:				
D160.1.1	PSLB8-2	Selected granular material	m³	50		
		1				
TOTAL SI	ECTION D C	ARRIED FORWARD				

C2.1.5.21

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D160.1.2		Selected fill blanket	m³	60		<u> </u>
D161	8.2.3	Commercial sources ( Only when ordered by the Engineer)				
D161.1		Selected granular material	m³	100		
D161.2		Selected fill blanket	m³	300		
D162		Encasing of pipes in concrete:				
D162.1	8.2.4	Class 25MPa/19 mm	m³	20		
D163		Supply, lay, join, bed on class C bedding, complete with couplings and test pipes:				
D163.1	1200L 8.2.1	HDPE Class 10 pipes for stated diameters:				
D163.1.1	PSL8-1	20 mm	m	300		
D163.1.2		25 mm	m	300		
D163.1.3		32 mm	m	300		
D163.1.4		40 mm	m	300		
D163.1.5		50 mm	m	300		
D163.1.6		63 mm	m	300		
D163.1.7		75 mm	m	300		
D163.1.8		90 mm	m	300		
D164	8.2.2	Extra over for the supplying, laying, and bedding of HDPE specials complete with couplings:				
D164.1	8.2.2	Equal Tee for stated diameters:				
D164.1.1	8.2.2	20 mm	No	3		
D164.1.2		25 mm	No	3		
D164.1.3		32 mm	No	3		
D164.1.4		40 mm	No	3		
D164.1.5		75mm	No	3		
D165	8.2.2	Class 10 reducer coupling for stated diameters:				
D165.1		40mm¢ x 25mm¢	No	3		
D165.2		32mm¢ x 25mm¢	No	3		
D165.3		50mm¢ x 40mm¢	No	3		
D165.4		50mm¢ x 32mm¢	No	3		
D165.5		40mm¢ x 32mm¢	No	3		
D165.6		90mm¢ x 75mm¢	No	3		
D165.7		63mm¢ x 40mm¢	No	3		
D165.8		25mm¢ x 20mm¢	No	3		
D166	8.2.2	Reducing Tee for stated diameter:				
D166.1		32-25-25	No	3		
D166.2		32-25-32	No	3		
D166.3		50-25-50	No	3		
D166.4		50-63-50	No	3		
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TOTAL SI	ECTION D C	ARRIED FORWARD				

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
		Brought Forward/				
D166.5		63-40-63	No	3		
D166.6		75-40-75	No	3		
D166.7		63-50-63	No	3		
D166.8		32-32-40	No	3		
D166.9		32-50-32	No	3		
D166.10		40-25-40	No	3		
D166.11		40-32-40	No	3		
D166.12		50-40-50	No	3		
D166.13		75-90-75	No	3		
D166.14		40-32-32	No	3		
D166.15		90-63-90	No	3		
D167 D167.1	8.2.2	90° HDPE bend: 20mm¢	No	3		
D167.2		25mm¢	No	3		
D167.3		32mm¢	No	3		
D167.4		40mm¢	No	3		
D167.5		75mm¢	No	3		
D168	8.2.2	Construct tapstands as per drawing with the following fittings				
D168.1		20 mm CI saddle with screw in ferrule	No	274		
D168.2		BSP male adaptor compression fitting, 20 mm	No	274		
D168.3		20 mm galvanised male elbows	No	274		
D168.4		20 mm x <sup>3</sup> / <sub>4</sub> " male adaptor	No	274		
D168.5		20 mm x 1.2 m long MGS pipe	No	274		
D168.6		20 mm socket	No	274		
D168.7		20 mm dole valve male/female threaded (Model GY) max flow 10l/min	No	274		
D168.8		90° Galvanised steel bend,20 mm	No	274		
D168.9		20 mm brass tap male threaded, class 10	No	274		
D168.10		Galvanised steel clamps	No	548		
D168.11		Y-Section fence standard, 1,83 m long	No	274		
D168.12	PS11	Broken stone soakaway filled with 20 mm dia stone and 110 mm thick brick edges	No	274		
D169	8.2.3	Isolating valves for standpipes (Type 3B plastic circular valve)				
D169.1		20 mm isolating valve for 20 mm HDPE pipe	No	69		
D169.2		25 mm isolating valve for 25 mm HDPE pipe	No	69		
D169.3		32 mm isolating valve for 32 mm HDPE pipe	No	68		
D169.4		40 mm isolating valve for 40 mm HDPE pipe	No	68		
OTAL SI	ECTION D C	ARRIED FORWARD				

Brought Forward/  Supply and install steel locking bar 75mm x 12mm x 900mm long, galvanized with lock, for steel manhole cover only  Supply and install of any steel fitings and specials not measured in this BOQ and only when ordered by the Engineer  Prov Sum 1 R 400 000,0	Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R
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Contractions charges and Profit on Item A 180 % 1	D170	PS 11	lock, for steel manhole cover only	No	40		
	D180	PS 11	Supply and install of any steel fitings and specials not measured in this BOQ and only when ordered by the Engineer	Prov Sum	1		R 400 000,00
	D181		Contractors charges and Profit on Item A180	%	1		
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