Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
1,00	**SABS 1200A & 1200AB**	**SCHEDULE 1: PRELIMINARY AND GENERAL**				
1,10	8,30	FIXED-CHARGE ITEMS				
1.1.1	8.3.1	Contractual requirements	Sum	1,00		
1.1.2	8.3.2 8.3.2.1	Provision of facilities on site: 1) Facilities for Engineer:				
		a)Engineers Office Type 2 and parking (No.=2)	Sum	1,00		
		b)Nameboards (No=2)	Sum	1,00		
		c) Communication	Prov Sum	1,00	15 000,00	
		d) Overhead profit on item 1.1.2(c) above	%	15 000,00		
		e) Meeting room Type 1	Sum	1,00		
		f) Latrine facilities	Sum	1,00		
	8.3.2.2	2) Facilities for the Contractor				
		a) Offices and storage sheds	Sum	1,00		
		b) Ablution and latrine facilities	Sum	1,00		
		c) Tools and equipment	Sum	1,00		
		d) Access (see sub-clause 5.8)	Sum	1,00		
		f) Water supplies, electric power and communications	Sum	1,00		
		g) Dealing with water	Sum	1,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
10,00	PSA 8.3.5.2	OHS Act Obligations (Compilation of OHSAct file)	Sum	1,00		
1.1.4	PSA 8.3.5.3	EMP Obligations	Sum	1,00		
1.1.5	PSA 8.3.5.1	Issuing of notices to consumers also refer to PS6.6	Sum	1,00		
1.1.6	8.3.4	Removal of site Establishment	Sum	1,00		
1,20	**8,40**	**TIME RELATED ITEMS**				
1.2.1	8.4.1	Contractual requirements	Month	5,00		
	8.4.2	Operation and maintainance of facilities on site.				
1.2.2	8.4.2.1	1) Facilities for Engineer:				
		a)Engineers Office Type 2 and parking (No.=2)	Month	5,00		
		b)Nameboards (No=2)	Month	5,00		
		c) Communication	Prov Sum	1,00	10 000,00	
		d) Overhead profit on item 1.2.2(c) above	%	10 000,00		
		e) Meeting room Type 1	Month	5,00		
		f) Latrine facilities	Month	5,00		
1.2.3	8.4.2.2	Facilities for the Contractor:				
40,00		a) Offices and storage sheds	Month	5,00		
		b) Ablution and latrine facilities	Month	5,00		
		c) Tools and equipment	Month	5,00		
		d) Access (see sub-clause 5.8)	Month	5,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		e) Plant	Month	5,00		
		f) Water supplies, electric power and communications	Month	5,00		
		g) Dealing with water	Month	5,00		
1.2.4	8.4.3	Supervision for the duration of construction	Month	5,00		
1.2.5	8.4.4	Company and head office overhead costs for the duration of the Contract	Month	5,00		
1.2.6	PSA 8.4.6.2	Security Services	Month	5,00		
1,30	OHS Spec.	Allow for compliance with all aspects of the OHS specification including:				
1.3.1	PSA 8.4.6.4	Risk assesment	Month	5,00		
1.3.2	PSA 8.4.6.1	Complaince with Health and Safety Plan including Safety Officer Salary	Month	5,00		
1,40	8,60	Prime cost items				
1.4.1		a) Materials used in the execution of dayworks	Prov. Sum	1,00	20 000,00	
1.4.2		b) Overheads, charges and profit on item 1.4.1(a) above	%	20 000,00		
1,50	**8,80**	**TEMPORARY WORKS**				
1.5.1	8.8.2	Dealing with traffic for the duration of the Contract	Sum	1,00		
1.5.2	8.8.6	Dealing with water	Sum	1,00		
1.5.3	8.8.4	Existing services				
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
1.5.4	PSA 8.8.4 (a)	a) Supply or hire of specialist equipment for the detection of existing services.	ProvSum	1,00	35 000,00	
1.5.5		Profit on item 1.5.4 (a) above	%	35 000,00		
1.5.6	PSA 8.8.4 (b)	b) Excavation by hand to expose existing services.	m³	10,00		
1,60	**PSA 8.5**	**PROVISIONAL SUMS STATED BY ENGINEER**				
		a) Reinstatement of asphalt by JRA	Prov. Sum	1,00	100 000,00	
		b) Engineer's Equipment and Independent testing	Prov. Sum	1,00	15 000,00	
		c) Temporary protection of existing services	Prov. Sum	1,00	45 000,00	
		d) Community Liaison Officer	Prov. Sum	1,00	120 000,00	
		e) Provision of photographic records	Prov. Sum	1,00	10 000,00	
		f) Landscaping and including irrigation system	Prov. Sum	1,00	25 000,00	
		g) Relocation of existing services	Prov. Sum	1,00	25 000,00	
		h) Training of local labour	Prov. Sum	1,00	100 000,00	
		i) Alterations and connection to Municipal services and repair to damaged services where approved by Engineer	Prov Sum	1,00	50 000,00	
		j) Topographical Survey as per the Engineer's instruction. Rate to include for a CD with AutoCAD drawing/s and co-ordinates data in CSV or text format.	Prov Sum	1,00	30 000,00	
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		k) Overheads, charges and profit on items (a-j) above	%	690 000,00		
1,70	8,70	Day works (to be executed on instruction from the Engineer)				
		Labour				
		a) Unskilled	hr	20,00		
		b) Semi skilled	hr	30,00		
		c) Skilled	hr	40,00		
		d) Armed Security guard	hr	1,00		
		Tipper truck				
		a) Capacity 6m³ (small)	hr	10,00		
		b) Capacity 10m³ (medium)	hr	10,00		
		c) Capacity 12m³ (large)	hr	10,00		
		Flat bed tracks				
		a) Capacity 3 ton (small)	hr	10,00		
		b) Capacity 5 ton (medium)	hr	10,00		
		c) Capacity 10 ton (large)	hr	10,00		
		LDV's				
		a) Capacity 1 ton	hr	10,00		
		Conservancy/ Water tankers				
		a) Capacity 6,000 litres (small)	hr	10,00		
		b) Capacity 9,000 litres (medium)	hr	10,00		
		c) Capacity 15,000 litres (large)	hr	10,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		Excavator (Crawler excavator)				
		a) 20 tonne	hr	10,00		
		b) 30 tonne	hr	10,00		
		TLB's (Tractor loader backhoe)				
		a) 2x4	hr	10,00		
		b) 4x4	hr	10,00		
		Walk behind vibrating rollers				
		a) Model BW 61 (small)	hr	10,00		
		b) Model BW 76 (medium)	hr	10,00		
		c) Model BW 90 (large)	hr	10,00		
		Compactors				
		a) Wacker	hr	10,00		
		b) Plate compactor	hr	10,00		
		Compressors (Potable Diesiel Compressor)				
		a) Small	hr	10,00		
		b) Medium	hr	10,00		
		c) Large	hr	10,00		
		Portable water pumps				
		a) Small	hr	10,00		
		b) Medium	hr	10,00		
		c) Large	hr	10,00		
SCHEDULE 1 TOTAL CARRIED FORWARD TO SUMMARY						

Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
2,00	**SABS 1200C**	**SCHEDULE 2: SITE CLEARANCE**				
2,10	8.2.1	Clear and grub (2 metre width)	m	3 047,00		
2,20	PSC 8.2.14	Protection of trees as ordered by Engineer	No	3,00		
2,30	8.2.10	Remove topsoil to nominal depth of 150mm and stockpile for re-use as directed by Engineer	m³	457,00		
2,40	PSC 8.2.11b	Removal of man-made surfaces, stockpile materials for later re-use				
		a) Footways and driveways				
		i) Asphalt (≤ 50mm thickness)	m²	36,00		
		ii) Asphalt (≥ 50 - 100mm thickness)	m²	20,00		
		iii) Interlocking concrete segmental paving blocks (all colours)	m²	10,00		
		iv) Concrete slabs (450 x 450mm)	m²	15,00		
		v) Brick paving	m²	20,00		
		vi) Grassing and vegetation	m²	2 785,00		
		vii) Unreinforced concrete <75mm thick	m²	36,00		
		viii) Reinforced concrete <75mm thick	m²	36,00		
		ix) Kerbing (All types of kerbs)	m	45,00		
		x) Dump rock/Stone pitching	m³	10,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
2,50	PSC 8.2.12.2	Backfilling and reinstatement of man-made surfaces				
		a) Backfilling and reinstatement of footways and driveways using materials recovered in item 2.4 above				
		i) Interlocking concrete segmental paving blocks (all colours)	m²	5,00		
		ii) Concrete slabs (450 x 450mm)	m²	10,00		
		iii) Brick paving	m²	15,00		
		iv) Grassing and vegetation	m²			
		v) Kerbing (All types of kerbs)	m	30,00		
		vi) Dump rock/Stone pitching	m³	0,00		
2,60	PSC 8.2.12.2	a) Backfilling and reinstatement of footways and driveways using new materials				
		i) Asphalt (≤ 50mm thickness)	m²	123,00		
		ii) Asphalt (≥ 50 - 100mm thickness)	m²	20,00		
		iii) Interlocking concrete segmental paving blocks (all colours)	m²	5,00		
		iv) Concrete slabs (450 x 450mm)	m²	5,00		
		v) Brick paving	m²	5,00		
		vi) Grassing and vegetation	m²	2 785,00		
		vii) Unreinforced concrete <75mm thick	m²	36,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		viii) Reinforced concrete <75mm thick	m2	36,00		
		ix) Kerbing (All types of kerbs)	m	15,00		
		x) Dump rock/Stone pitching	m^3	10,00		
SCHEDULE 2 TOTAL CARRIED FORWARD TO SUMMARY						

Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
3,00	**SABS 1200DB**	**SCHEDULE 3: EARTHWORKS (PIPE TRENCHES)**				
3,10	8.3.2	Excavation				
3.1.1	PSDB 8.3.2(a)	Excavate in all material for trenches, shore and dispose of surplus material using labour intensive construction methods for the depths of:				
		a) Over 0,0m and up to 1,5m	m	1 996,00		
		b) Over 1,5m and up to 2,5m	m	689,00		
		c) Over 2,5m	m	365,00		
		Excavate by hand in all material for tie-ins, house connections, backfill and compact including disposal of surplus unsuitable material for depth:				
		a) Over 0,0m and up to 1,5m	m³	9,00		
		b) Over 1,5m and up to 2,5m	m³	6,00		
		c) Over 2,5m	m³	4,00		
3.1.2	8.3.2(b)	Extra over Item 3.1.1 above for : Please refer to PSD 3.1.3 for Classification of materials for hand excavations				
		a) Intermediate excavation.	m³	245,00		
		b) Hard excavation.	m³	89,00		
		c) Rock excavation	m³	53,00		
3,20	8.3.3	Excavation Ancillaries				
3.2.1	8.3.3.1	Make up deficiency in backfill material (Provisional)				
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		a) from other necessary excavations on site	m³	215,00		
		b) by importation from designated borrow pits	m³	98,00		
		c) by importation from commercial or off site sources selected by the Contractor	m³	77,00		
3,30	8.3.3.3	a) Additional compaction to 95% mod AASHTO density in road crossings	m³	52,00		
3,40	PSDB 8.3.5(a)	a) Services that intersect a trench				
		i) Water house connections.	No.	5,00		
		ii) Sewer pipes up to 300mm Dia.	No.	5,00		
		iii) Cables.	No.	21,00		
		iv) Stormwater pipes up to 1050mm dia.	No.	11,00		
		v) Kerbs and Channels	No.	6,00		
		vi) Water pipes of any diameter	No.	9,00		
3,50	8.3.5(b)	b) Services that adjoin a trench				
		i) Water house connections	m	13,00		
		ii) Sewer pipes up to 300mm Dia.	m	458,00		
		iii) Cables.	m	152,00		
		iv) Stormwater pipes up to 1050mm dia.	m	123,00		
		v) Kerbs and Channels	m	20,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		vi) Water pipes of any diameter	m	365,00		
3,60	PSDB 8.3.5(c)	Services that require special care	No	8,00		
3,70		Trimming of tree roots on pipe alignment(This item will be measured as number of trees)	No	5,00		
SCHEDULE 3 TOTAL CARRIED TO SUMMARY						

Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
4,00	**SABS 1200LB**	**SCHEDULE 4: BEDDING (PIPES)**				
4,10	8.2.1	Provision of bedding from trench excavation				
		a) Selected granular material	m^3	421,00		
		b) Selected fill material	m^3	789,00		
		c) Extra over item 4.1(a) and (b) for sieving where ordered by Engineer	m^3	65,00		
4,20	8.2.2.3	Provision of bedding imported from commercial sources (Provisional)				
		a) Selected granular material	m^3	156,00		
		b) Selected fill material	m^3	67,00		
		c) 19mm Crushed stones bedding	m^3	97,00		
4,30	8.2.4	Encasing of pipe in 20MPa concrete (Provisional)	m^3	12,00		
SCHEDULE 4 TOTAL CARRIED TO SUMMARY						

Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
5,00	**SABS 1200L**	**SCHEDULE 5: MEDIUM PRESSURE PIPELINES**				
5,10	8.2.1	Supply, lay, bed (class B bedding), test and disinfect, backfill complete with victaulic couplings denso wrapped, high impact uPVC Class 16 pipes:				
		a) DN110	m	301,00		
		b) DN160	m	811,00		
		c) DN200	m			
		d) DN250	m	1 936,00		
		e) DN315	m			
		f) DN355	m			
5,20	8.2.2	Extra-over for 5.1 for the supply, lay and bedding of Steel Specials with couplings:				
5.2.1	8.2.2	a) Shouldered end Steel Bends including thrust blocks to suit high impact uPVC pipe:				
		DN110				
		i) 11.5°	No	5,00		
		ii) 22.5°	No			
		iii) 45°	No			
		iv) 90°	No	2,00		
		DN160				
		i) 11.5°	No			
		ii) 22.5°	No			
		iii) 45°	No			
		iv) 90°	No	1,00		
		DN200				
		i) 11.5°	No			
		ii) 22.5°	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		iii) 45°	No			
		iv) 90°	No			
		DN250				
		i) 11.5°	No	2,00		
		ii) 22.5°	No	3,00		
		iii) 45°	No			
		iv) 90°	No	2,00		
		DN315				
		i) 11.5°	No			
		ii) 22.5°	No			
		iii) 45°	No			
		iv) 90°	No			
		DN355				
		i) 11.5°	No			
		ii) 22.5°	No			
		iii) 45°	No			
		iv) 90°	No			
5.2.2	8.2.2	b)) Shouldered end Steel Reducer to suit High Impact uPVC pipe:				
		i) 150mm x 100mm dia.	No			
		ii) 200mm x 100mm dia.	No	0,00		
		iii) 200mm x 150mm dia.	No			
		iv) 250mm x 100mm dia.	No	2,00		
		v) 250mm x 150mm dia.	No	1,00		
		vi) 250mm x 200mm dia.	No			
		vii) 300mm x 100mm dia.	No			
		viii) 300mm x 150mm dia.	No			
		ix) 300mm x 200mm dia.	No			
		x) 300mm x 250mm dia.	No			
		xi) 350mm x 100mm dia.	No			
		xii) 350mm x 150mm dia.	No			
		xiii) 350mm x 200mm dia.	No			
		xiv) 350mm x 250mm dia.	No			
		xv) 350mm x 300mm dia.	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
5.2.3	8.2.2	c) Steel Tees to suit High Impact uPVC piping including thrust block				
		i) 100mm dia. equal tee	No	0,00		
		ii) 150mm dia. equal tee	No			
		iii) 200mm dia. equal tee	No			
		iv) 150mm x 100mm dia. reducing tee	No			
		v) 200mm x 100mm dia. reducing tee	No	0,00		
		vi) 200mm x 150mm dia. reducing tee	No	1,00		
		vii) 250mm equal Tee	No			
		viii) 250mm x 100mm dia reducing Tee	No	2,00		
		ix) 250mm x 150mm dia reducing Tee	No	1,00		
		x) 250mm x 200mm dia reducing Tee	No			
		xi) 300mm equal Tee	No			
		xii) 300mm x 100mm dia reducing Tee	No			
		xiii) 300mm x 150mm dia reducing Tee	No			
		xiv) 300mm x 200mm dia reducing Tee	No			
		xv) 300mm x 250mm dia reducing Tee	No			
		xvi) 350mm equal Tee	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		xvii) 350mm x 100mm dia reducing Tee	No			
		xviii) 350mm x 150mm dia reducing Tee	No			
		xix) 350mm x 200mm dia reducing Tee	No			
		xx) 350mm x 250mm dia reducing Tee	No			
		xxi) 350mm x 300mm dia reducing Tee	No			
		xxii) 110mm x 110mm dia equal cross	No	0,00		
		xxii) 160mm x 160mm dia equal cross	No			
		xxii) 200 x 200mm dia equal cross	No	0,00		
5,30	PSL 8.2.19	Valves and Fire hydrants				
5.3.1		a) Supply, fixing and bedding of valves with its fittings complete (including chambers as per drawing JW100-DET03-W01). Gate Valves Class 16, anti-clockwise closing (except for Midrand Depot) for the following pipe sizes:				
		i) DN100	No	2,00		
		ii) DN150	No	2,00		
		iii) DN200	No	0,00		
		iv) DN 250	No	2,00		
		v) DN 300	No			
		vi) DN 350	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
5.3.2	PSL 8.2.19	b) Supply, fixing and bedding of above ground fire hydrants with fittings and galvanised pipe for connection to the main line as per detail JW100-DET06-W01 (Rate to include all fittings required to connect to main line e.g. tees, bends, distance piece etc.)				
		i) DN80 fire Hydrant mainline 110mm dia	No			
		ii) DN80 fire Hydrant mailine 160mm dia	No			
		iii) DN80 fire Hyadrant mainline 200mm dia	No			
		iv) DN80 fire Hydrant mainline 250mm dia	No			
		iv) DN80 fire Hydrant mainline 315mm dia	No			
		iv) DN80 fire Hydrant mainline 355mm dia	No			
5,40	8.2.4	Extra-over 5.1 for cutting and joining of pipes to length where required:				
		a) '"Press on" shouldered end collars including 1 victaulic coupling for uPVC pressure pipe:				
		i) DN110	No	2,00		
		ii) DN160	No			
		iii) DN200	No			
		iv) DN250	No			
		v) DN315	No			
		vi) DN350	No			
		b) Steel Flanged Adaptors with victaulic ends				
		i) DN110	No			
		ii) DN160	No			
		iii) DN200	No			
		iv) DN250	No	1,00		
		v) DN315	No			
		vi) DN355	No			
5,50	8.2.15	Special wrapping in corrosive soil	m	693,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
5,60		Tying into existing Pipes				
5.6.1	PSL 8.2.17	Tying into existing water line. Supply all fittings to suit pipe size including labour for the following pipe sizes:				
		a) New 110mm-160mm uPVC/HDPE into the following existing AC/ uPVC/HDPE pipe sizes:				
		i) DN110	No			
		ii) DN160	No			
		iii) DN200	No			
		iv) DN250	No			
		v) DN315	No			
		vi) DN355	No			
		b) New 110mm-160mm uPVC/HDPE into the following existing steel pipe sizes:				
		i) DN100	No			
		ii) DN150	No			
		iii) DN200	No			
		iv) DN250	No			
		v) DN300	No			
		vi) DN350	No			
		c) New 200mm-250mm uPVC/HDPE into the following existing AC/uPVC/HDPE pipe sizes:				
		i) DN110	No			
		ii) DN160	No			
		iii) DN200	No			
		iv) DN250	No	1,00		
		v) DN315	No			
		vi) DN355	No			
		d) New 200mm-250mm uPVC/HDPE into the following existing steel pipe sizes:				
		i) DN100	No			
		ii) DN150	No			
		iii) DN200	No			
		iv) DN250	No			
		v) DN300	No			
		vi) DN350	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		e) New 315mm-355mm uPVC/HDPE into the following existing AC/uPVC/HDPE pipe sizes:				
		i) DN110	No			
		ii) DN160	No			
		iii) DN200	No			
		iv) DN250	No			
		v) DN315	No			
		vi) DN355	No			
5.6.2		Tying into existing water line using under pressure drilling. Supply all fittings to suit pipe sizes including labour for the following pipe sizes:				
		a) Tying new 110mm-160mm uPVC/HDPE into existing steel/HDPE pipe of any size:	No			
		b) Tying new 200mm-2500mm uPVC/HDPE into existing steel/HDPE pipe of any size:	No			
		c) Tying new 315mm-355mm uPVC/HDPE into existing steel/HDPE pipe of any size:	No			
5,70	PSL 8.2.24.2	Construction of road crossing using Horizontal Directional Drilling (HDD) in soft and intermediate material for any depth				
		a) DN110 (HDPE pipe, Class 16 PE100 SDR 11)	m	124,00		
		b) DN160 (HDPE pipe, Class 16 PE100 SDR 11)	m			
		c) DN180 (HDPE pipe, Class 16 PE100 SDR 11)	m			
		d) DN200 (HDPE pipe, Class 16 PE100 SDR 11)	m			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		e) DN250 (HDPE pipe, Class 16 PE100 SDR 11)	m	55,00		
		f) DN315 (HDPE pipe, Class 16 PE100 SDR 11)	m			
		g) DN355 (HDPE pipe, Class 16 PE100 SDR 11)	m			
5,80		Extra over item 5.7 for Horizontal Direction Drilling in rock material	m	56,00		
5.8.1		Excavate in all materials Launching and reception shafts	m³	59,00		
5,90	PSL 8.2.18	Recover valves, fittings, specials etc and deliver to the respective Depot.				
		a) Valves & hydrants of all sizes	No			
5,10	PSL 8.2.24.1	Supply, handle, install HDPE (the following diameter HDPE pipes, Class 16 PE100 SDR 11) for depths not exceeding 5m using pipe cracking/bursting. This includes temporal bypass pipe line (160mm HDPE) and all other related works to render the new pipeline acceptable.				
		a) 110mm	m			
		b) 160mm	m			
		c) 180mm	m			
		d) 200mm	m			
		e) 250mm	m			
		f) 315mm	m			
		g) 355mm	m			
5.10.1		Excavate in all materials Launching and reception shafts	m³			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
5,11	PSL 8.2.21	Supply and install PRV complete with all fittings, including PRV Chamber as per Standard Drawing JW1000-STD-PRV01 to 04				
		a) 100mm diameter	No			
		b) 150mm diameter	No			
		c) 200mm diameter	No			
		d) 250mm diameter	No	1,00		
		e) 300mm diameter	No			
SCHEDULE 5 TOTAL CARRIED FORWARD TO SUMMARY						

Item No.	Payment Clause	Description	Unit	Qty	Rate	Total Amount
6,00	**SABS 1200LF**	**SCHEDULE 6: ERF CONNECTIONS (WATER)**				
6,10	8.2.2	Supply, lay and test HDPE Class 16, PE100 SDR11 Erf connections (Rate to include all compression fittings for connecting to the main line and the water meter)				
6.1.1		a) Using open trench construction				
		i) 25mm dia. connections	m			
		ii) 32mm dia. connections	m	2,00		
		iii) 40mm dia. connections	m			
		iv) 63mm dia. connections	m	2,00		
6.1.2		b) Using trenchless methods Horizontal Directional Drilling (The following rates should cover everything except launch and reception pits				
		i) 25mm dia. connections	m			
		ii) 32mm dia. connections	m			
		iii) 40mm dia. connections	m			
		iv) 63mm dia. connections	m			
6.1.3		Excavate in all materials Launching and reception shafts	m^3			
6,20	8.2.3	Extra over items 6.1 for specials				
		Saddles (to suit High Impact uPVC pipes)				
		i) 110mm x 25mm	No	2,00		
		ii) 110mm x 32mm	No	2,00		
		ii) 110mm x 40mm	No			
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		ii) 160mm x 32mm	No			
		ii) 160mm x 40mm	No			
		iv) 160mm x 63mm	No			
		v) 200mmx 25mm	No			
		vi) 200mm x 32mm	No			
		vii) 200mmx 40mm	No			
		viii) 200mm x 63mm	No			
6,30	8.2.6	Stopcock (Supply and install brass ball/gate valve stopcock, rate to include all fittings to connect to the HDPE pipes)				
		i) 25mm	No			
		ii)32mm	No	2,00		
		iii) 40mm	No			
		iv) 63mm	No	3,00		
6,40	8.2.4	Supply and install Meters complete with couplings				
		i) 15mm Class C above ground domestic water meters (rate to include all fittings for connecting to the erf connection)	No			
		ii) 20mm Class C above ground domestic water meters (rate to include all fittings for connecting to the erf connection)	No	0,00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
		iii) 32mm Class C above ground (in a box) domestic water meters (rate to include all fittings for connecting to the erf connection)	No	2,00		
		iv) 32mm Class B above ground bulk water meters(rate to include all fittings for connecting to the erf connection as per detail JW100-DET09-W01	No	2,00		
		v) 40mm Class B above ground bulk water meters(rate to include all fittings for connecting to the erf connection as per detail JW100-DET09-W01	No	2,00		
		vi) 63mm Class B above ground bulk water meters(rate to include all fittings for connecting to the erf connection as per detail JW100-DET09-W01	No	3,00		
6,50	8.2.5	Site testing of water meters, where ordered by Engineer (Provisional)	Prov Sum			
6,60		Profit on item 6.5 above	%			
6,70	8.2.8	i) Markings for valves and hydrants	No	46,00		
		ii) Marker posts valves and pipeline	No	46,00		
SCHEDULE 6 TOTAL CARRIED TO SUMMARY						

SCHEDULE 1: PRELIMINARY AND GENERAL	
SCHEDULE 2: SITE CLEARANCE	
SCHEDULE 3: EARTHWORKS (PIPE TRENCHES)	
SCHEDULE 4: BEDDING (PIPES)	
SCHEDULE 5: MEDIUM PRESSURE PIPELINES	
SCHEDULE 6: ERF CONNECTIONS (WATER)	
SUBTOTAL	
VAT (15%)	
TOTAL	