



INDEX

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
1	SABS 1200A	SECTION 1 : PRELIMINARY & GENERAL					
1.1	8.3	FIXED-CHARGES AND VALUE RELATED ITEMS					
1.1.1	8.3.1	Contractual Requirements (PSA 4.1, PCY13.5)	Sum	1			
	8.3.2	<u>Establishment of Facilities on Site</u>					
	8.3.2.1	<u>Facilities for the Engineer</u>					
1.1.2	PSAB-3.1	a) Engineer's Office (PSA 4.3.1)	Sum	1		Rate Only	
1.1.3	1200AB-3.1	b) Name Board (PSA 4.3.2)	Sum	2			
1.1.4	PSAB-4.2	c) Survey Equipment	Sum	1			
1.1.5		d) Survey Assistant	Sum	1			
		-					
1.2	8.3.2.2	<u>Facilities for the Contractor</u>					
1.2.1		a) Offices, storage sheds	Sum	1		Rate Only	
1.2.2		e) Ablution and latrine facilities	Sum	1			
1.2.3		g) Water Supply, Electric Power and Communications	Sum	1			
1.2.4		h) Dealing with water	Sum	1			
1.2.5		i) Access	Sum	1			
1.2.6	8.3.3	Other Fixed-charge Obligations	Sum	1			
1.2.7	8.3.4	Removal of Site Establishment	Sum	1			
1.3	8.4	TIME-RELATED ITEMS					
1.3.1	8.4.1	Contractual Requirements (PSA 4.2)	Sum	1			
	8.4.2	<u>Operation and Maintain of Facilities on site for the Duration of the Construction</u>					
	8.4.2.1	<u>Facilities for the Engineer</u>					
1.3.2	1200AB-3.1	Furnished Offices, toilets facilities and carpports	Sum	1			
1.3.3		Name Boards (PSA 4.3.2)	Sum	1			
1.3.4	PSA-4.2	Survey Equipment	Sum	1			
1.3.5		Survey Assistant (Approx. 4 hours/week)	Sum	1			
1.3.6		Engineer Staff Accomodation	Prov.Sum			R440,000.00	
Sub-Total Carried Forward						R -	

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Sub-Total Brought Forward						R	-
	SABS 1200A						
	8.4.2.2	<u>Facilities for Contractor</u>					
1.3.6		a) Offices and storage sheds	Sum	1			
1.3.7		e) Ablution and latrine facilities	Sum	1			
1.3.8		g) Water Supply, Electric Power and Communications	Sum	1			
1.3.9		h) Dealing with Water	Sum	1			
1.3.10		i) Access	Sum	1			
1.3.11	8.4.3	Supervision (PCY 13.3)	Sum	1			
1.3.12	8.4.4	Company and Head Office Overhead Costs for the Duration of the Construction	Sum	1			
13.13	8.4.5	Other Time-related Obligations	Sum	1			
1.4	PSA 4.5	OCCUPATIONAL HEALTH AND SAFETY					
		Provision for thee cost related to the Occupational Health and Safety Act, 85 of 1993, and the relevant regulations					
1.4.1		(a) Preparing of a Health and Safety Plan	Sum	1			
1.4.2		(b) Compilation of a risk assessment prior to construction	Sum	1			
1.4.3		(c.) Health and Safety induction training of employees	Sum	1			
1.4.4		(d) Compilation and keeping up to date the health and safety file which shall include all documentation required in terms of the Act.	Sum	1			
1.4.5		(e.) Implementation of the health and safety plan over the entire construction period.	Sum	1			
SUB-TOTAL CARRIED FORWARD TO SUMMARY							

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2		SCHEDULE 2: PROVISIONAL SUMS, PRIME COST ITEMS, DAY WORKS AND TEMPORARY WORKS				
2.1	SABS 1200 - A PSA 4.6	<u>SUMS STATED PROVISIONALLY BY THE ENGINEER</u>				
		- <u>Remuneration</u>				
2.1.1	PCY 13.1	(a) Project Liaison Officer	Prov.Sum		220,000.00	R 220,000.00
2.1.2	PCY 13.1(a)	(b) Project Liaison Committee	Prov. Sum		300,000.00	R 300,000.00
2.1.3		(c.) Additional Laboratory Testing	Prov.Sum		150,000.00	R 150,000.00
2.1.4		(d) AS Built Survey/Drawings	Prov.Sum		85,000.00	R 85,000.00
2.1.5		(e.) Overheads, charges and profits on the above	%			
2.2		<u>Training</u>				
2.2.1	PCY 13.5	(a) Accredited and Approved training courses for selected local and other labourers including wages during training	Prov.Sum	1	250,000.00	R 250,000.00
2.2.2		(b) Training for Trainee Student Technicians	Prov.Sum	1	300,000.00	R 300,000.00
		(c) Overheads, charges and profits on the items (a) and (b) above	%			
2.3	8.8	TEMPORARY WORKS				
2.3.1	8.8.1	Main Access Road to Works (Construct and maintain)	Sum	1		Rate Only
2.3.2	8.8.2	Dealing with Traffic (or accomodation of traffic)	Sum	1		Rate Only
2.3.3	8.8.3	Protection of existing structure until construction in vicinity is complete	Sum	1		Rate Only
Sub-Total Carried Forward						

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Sub-Total Brought Forward					
2.4	Section DWK	DAYWORKS (PROVISIONAL)			
		NOTE: Dayworks executed on instruction of the Engineer only			
		<u>Labour</u>			
2.4.1		Skilled	hr	20	Rate Only
2.4.2		Semi-skilled	hr	20	Rate Only
2.4.3		Un-skilled	hr	60	Rate Only
		-			
		<u>Plant (wet rate)</u>			
		<u>Trucks (specify capacity)</u>			
2.4.4		Small - Tipper truck 10m3	hr	8	Rate Only
2.4.5		Small - Flatbed truck 6m3	hr	5	Rate Only
		<u>LDV (specify capacity)</u>			
2.4.6		LDV 1ton	hr	500	Rate Only
		<u>Water Tankers (specify capacity)</u>			
2.4.7		Watercart towable 8000 litres	hr	15	Rate Only
2.4.8		Watercart tanker 10000 litres	Km	10	Rate Only
		<u>Excavators (specify models)</u>			
2.4.9		CAT 350 or similar	hr	50	Rate Only
		<u>TLB's</u>			
2.4.10		TLB's - (0.5m3 bucket)	hr	60	Rate Only
		<u>Pedestrian roller</u>			
2.4.11		Bomag BW90 or similar	hr	100	Rate Only
		<u>Compactors (specify model)</u>			
2.4.12		Plate compactor	hr	45	Rate Only
2.4.13		Wackers (Rammers)	hr	45	Rate Only
		<u>Concrete Mixers (specify capacity)</u>			
2.4.14		Small - volume (250) litre	hr	25	Rate Only
2.4.15		Medium - volume (500) litre	Km	10	Rate Only
Sub-Total Carried Forward					

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

Sub-Total Brought Forward					
		<u>Compressors Mixers (specify capacity)</u>			
2.4.16		Small - volume (.....) cfm	hr	10	Rate Only
2.4.17		Medium - volume (.....) cfm	Km	40	Rate Only
		<u>Waterpumps (specify capacity)</u>			
2.4.18		Small - volume 1l/s	hr	80	Rate Only
2.4.19		Medium - volume 5 l/s	Km	20	Rate Only
		<u>Generators (specify KVA)</u>			
2.4.20		Small capacity (10) KVA	hr	40	Rate Only
2.4.21		Medium capacity (50) KVA	Km	80	Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY					

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3		SCHEDULE 3: SITE CLEARANCE				
3.1	SABS 1200C	SITE CLEARANCE				
3.1.1	8.2.1	Clear and grub (PSC 4.1)	ha	2		Rate Only
	8.2.2	Remove and grub large trees and tree stumps of girth				
3.1.2		a) Over 1m and up to and including 2m	No			Rate Only
3.1.3		b) Over 2m and up to and including 3m	No			Rate Only
3.1.4	8.2.3	Remove and grub all trees and tree stumps regardless of girth	ha	1		Rate Only
3.1.5	8.2.4	Reclear surfaces (only on instruction from the Engineer)				Rate Only
3.1.6	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and replace as instructed by Engineer	m ²	1450		Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4		SCHEDULE 4: EARTHWORKS				
4.1	SABS 1200 DB	EARTHWORKS				
	8.3.1	Excavation				
4.1.1	8.3.1	a) Remove top soil to nominal depth of 150 mm, stockpile and maintain	m ²	11200		Rate Only
4.1.2		b) Excavate in all materials and dispose	m ³	10800		Rate Only
		c) Extra-over for				
4.1.3		1) Intermediate excavation	m ³	2160		Rate Only
4.1.4		2) Hard rock excavation	m ³	1080		Rate Only
4.1.5		3) Boulder excavation, Class A	m ³			Rate Only
4.1.6		4) Boulder excavation, Class B	m ³			Rate Only
	8.3.2	Restricted Excavation				
4.1.7		a) Excavate for restricted foundations, footings, and trenches in all materials and dispose	m ³	60		Rate Only
4.2	SABS 1200DB	EARTHWORKS (PLATEFORM)				
4.2.1	PSDB 8.3.9	Importation, place and compact to 95% Mod AASHTO of fill material from commercial source (material to be G5 quality or better)	m ³	3600		Rate Only
4.3	SABS 1200DM	EARTHWORKS				
4.3.1	8.3.5	Selected layer compacted to 93 % of modified AASHTO maximum density 150 mm thick layer under the reservoir slab (Provisional)	m ³	310		Rate Only
	8.3.3	Excavation Ancillaries				
	8.3.3.1	Make up deficiency in backfill material				
4.3.2		a) From other necessary excavations on site	m ³	250		Rate Only
4.3.3		b) By importation from designated borrow pits	m ³	650		Rate Only
4.3.4		c) By importation from commercial or off site sources selected by the contractor	m ³	250		Rate Only
4.3.5	8.3.3.2	Opening up and closing down of designated borrow pit	Sum	1		Rate Only
	8.3.3.3	COMPACTION IN ROAD RESERVES				
4.3.6		Additional compaction to 93% mod AASHTO density in road reserves	m ³	150		Rate Only
	8.3.3.4	Overhaul				
4.3.7		b) Long overhaul	m ³ /Km	18750		Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
5	SABS 1200-L	SCHEDULE 5: MEDIUM PRESSURE PIPELINES					
5.1	PSG 8.16	PRESSURE PIPES Supply, deliver, store, protect, handle, lay, cut, bed clean, disinfect and test pipes, complete with couplings					
5.1.1		Diameter 500mm uPVC PN9	m	300		Rate Only	
5.2		PRESSURE FITTINGS Supply, deliver, store, protect, handle, lay, cut, bed fittings and couplings including testing and disinfection					
		<u>Bends</u>					
5.2.1		Diameter 500mm X 11.5 degree CLASS 9	No	1		Rate Only	
5.2.2		Diameter 500mm X 22.5 degree CLASS 9	No	2		Rate Only	
5.2.3		Diameter 500mm X 45 degree CLASS 9	No	2		Rate Only	
5.2.4		Diameter 500mm X 90 degree CLASS 9	No	3		Rate Only	
		<u>T Junctions (Type steel - flanged)</u>					
5.2.5		Diameter 500mm X 500mm	No	2		Rate Only	
5.3		CONCRETE THRUST BLOCKS Anchor blocks, thrust blocks and pedestals for up to 500mm pipes including excavation, formwork and finishing on Class 25Mpa/19mm concrete					
5.3.1			m3	20		Rate Only	
5.4		CONNECTION INTO EXISTING BULKLINE Connect into existing water pipe lines including all labour and materials to complete the connections					
5.4.1		630mm	No	2		Rate Only	
SUB-TOTAL CARRIED FORWARD TO SUMMARY							

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6		SCHEDULE 6: BEDDING				
6.1		BEDDING FROM TRENCH EXCAVATION				
	8.2.1	Provision for bedding material from trench excavation				
6.1.1		Selected granular material	m ³	68		Rate Only
6.1.2		Selected fill material	m ³	250		Rate Only
6.2		BEDDING BY IMPORTATION				
	8.2.2.1	Provision for bedding by importation from other necessary excavations within the freehaul distance				
6.2.1		Selected granular material	m ³	15		Rate Only
6.2.2		Selected fill material	m ³	100		Rate Only
	8.2.2.3	Provision for bedding by importation from commercial sources selected by the contractor				
6.2.3		Selected granular material	m ³	50		Rate Only
6.2.4		Selected fill material	m ³	50		Rate Only
6.2.5	8.2.4	Encasing of pipes up to 630mm diameter on 15 Mpa concrete complete including all formwork	m ³	25		Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7		SCHEDULE 7 - RESERVOIR CHAMBERS				
7.1		RESERVOIR CHAMBERS				
	SABS 1200 D	EARTHWORKS				
	8.3.3	Restricted excavation				
7.1.1		a) Excavation in all materials and use for backfill - including temporary stockpiling to form embankment later (compacted to 95% MOD AASHTO)	m ³	410		Rate Only
7.1.2		b) Extra-over for (1) Hard rock excavation	m ³			Rate Only
7.1.3	8.3.5	Extra excavation in all materials to provide working space around structure	m ²	300		Rate Only
	8.3.9	Extra-over for backfill or fill against structures using:				
7.1.4		(a) 2% Soil cement	m ³	90		Rate Only
7.1.5		(b) 5% Soil cement	m ³	90		Rate Only
7.2	SABS 1200 G	CONCRETE				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
7.2.1		(1) Sides of surfacebeds	m ²	25		Rate Only
7.2.2		(2) Walls	m ²	396		Rate Only
	8.2.5	Narrow widths (up to 250mm wide)				
7.2.3		(a) Smooth	m	66		Rate Only
	8.2.6	Box out holes/form voids				
		(a) Large, other than circular, of area over 0,1m ² and up to and including 2 m ²				

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

7.2.4		Over and up to (1) 0m 0.6m deep	No	16		Rate Only
7.3	8.3	SCHEDULED REINFORCEMENT ITEMS				
	8.3.1	Steel Bars				
7.3.1		(1) Mild Steel reinforcement	t	2		Rate Only
7.3.2		(2) High-tensile reinforcement	t	5		Rate Only
7.3.3		(3) mesh reinforcing	Kg	250		Rate Only
Sub-Total Carried Forward						
Sub-Total Brought Forward						
7.4	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.2	Blinding layer				
7.4.1		(a) 50mm minimum thickness grade 15MPa/19mm concrete under floors	m ²	138		Rate Only
	8.4.3	Strength concrete				
		(a) Grade 25MPa/19mm concrete,				
7.4.2		(i) Floors	m ³	10		Rate Only
7.4.3		(ii) Walls	m ³	40		Rate Only
7.4.4		(iii) Roofs	m ³	10		Rate Only
7.4.5		(iv) Anchor pipes	m ³	25		Rate Only
	8.4.4	Unformed surface finishes				
7.4.6		(a) Wood-floated finish	m ²	396		Rate Only
7.4.7		(b) Steel-floated finish	m ²	416		Rate Only
	8.7	GROUTING IN ALL THICKNESS WALLS				
7.4.8		(a) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No	16		Rate Only
7.5	SABS 1200 L	STEEL PIPES AND FITTINGS				

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

INLET CHAMBERS (MONDE/W/20/01/DR01)					
Fabrication, supply, transport and install and test the following pipe fittings and valves. All items to be approved by Engineer prior to ordering					
7.5.1	Item 4.1.1 500 Dia. 45 deg. Flanged MS elbow	No	2		Rate Only
7.5.2	Item 4.1.2 500mm dia. 90 deg. Flanged MS elbow extended with pubble flange	No	2		Rate Only
7.5.3	Item 4.1.3 500mm dia. Flanged MS pipe	No	2		Rate Only
7.5.4	Item 4.1.4 500mm dia. Flanged MS pipe	No	2		Rate Only
7.5.5	Item 4.1.5 500mm dia. 90 deg. Flanged MS elbow	No	2		Rate Only
7.5.6	Item 4.1.6 500mm dia. Pubble flange	No	1		Rate Only
7.5.7	Item 4.1.7 500mm dia. Flanged adaptor	No	1		Rate Only
7.5.8	Item 4.1.8 500mm dia. MS pubble flange	No	1		Rate Only
7.5.9	Item 4.1.9 500mm dia. X 450mm dia. , GMS concentric reducer, flanged both ends and drilled to SABS 1123, Table 2500/3	No	1		Rate Only
7.5.10	Item 4.1.10 450mm dia. Flanged Bermad Valve	No	1		Rate Only
7.5.11	Item 4.1.11 450mm dia. Pipe piece flanged one end and other end suitable for flange adaptor	No	1		Rate Only
7.5.12	Item 4.1.12 450mm dia. Battery operated flowmeter	No	1		Rate Only
7.5.13	Item 4.1.13 450mm flanged MS pipe	No	1		Rate Only
7.5.14	Item 4.1.14 450mm dia RSV Gate valve flanged both ends	No	1		Rate Only
7.5.15	Item 4.1.15 500mm dia. Flanged adaptor	No	2		Rate Only
7.5.16	Item 4.1.16 450mm dia. Flanged adaptor	No	2		Rate Only
7.5.17	Item 4.1.17 500mm dia. RSV Gate valve, flanged both ends	No	2		Rate Only
7.5.18	Item 4.1.18 500mm dia. T-piece MS pipe	No	1		Rate Only
7.5.19	Item 4.1.19 500mm dia. MS pubble flange	No	1		Rate Only
7.5.20	Item 4.1.20 500mm dia. MS pubble flange	No	1		Rate Only
7.5.21	Item 4.1.21 500mm dia. X 450mm dia., GMS concentric reducer, flanged both ends	No	1		Rate Only
7.5.22	Item 4.1.22 500mm dia. MS pabble flange	No	1		Rate Only
Sub-Total Carried Forward					

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Sub-Total Brought Forward					
7.6		OUTLET CHAMBERS Fabrication, supply, transport and install and test the following pipe fittings and valves. All items to be approved by Engineer prior to ordering			
7.6.1		Item 4.4.1 500mm dia. Adaptor	No	1	Rate Only
7.6.2		Item 4.4.2 500mm flanged, GMS pipe piece	No	1	Rate Only
7.6.3		Item 4.4.3 500mm dia. 90 deg. Flanged MS elbow	No	1	Rate Only
7.6.4		Item 4.4.4 500mm dia. RSV Gate Valve	No	1	Rate Only
7.6.5		Item 4.4.5 500mm dia. Flanged, GMS pipe piece, with pubble flange	No	1	Rate Only
7.6.6		Item 4.5.1 500mm dia. Flange adaptor	No	1	Rate Only
7.6.7		item 4.5.2 500mm dia. Flanged GMS pipe piece with pubble flange	No	1	Rate Only
7.6.8		Item 4.5.3 500mm flanged, GMS pipe piece with pubble flange	No	1	Rate Only
7.6.9		Item 4.5.4 500mm dia. RSV Gate Valve	No	1	Rate Only
7.6.10		Item 4.5.5 500mm dia. 90 deg flanged Equal Tee	No	1	Rate Only
7.7		OVERFLOW AND SCOUR CHAMBER Fabrication, supply, transport and install and test the following pipe fittings and valves. All items to be approved by Engineer prior to ordering			
7.7.1		Item sc 4.2.1 700mm dia to 500mm dia. MS reducing pipe piece flanged one end.	No	2	Rate Only
7.7.2		Item sc 4.2.2 500mm dia. Flanged MS pipe	No	4	Rate Only
7.7.3		Item sc 4.2.3 500mm dia. 90 deg. Flanged MS elbow	No	4	Rate Only
7.7.4		Item sc 4.2.4 500mm dia. MS pipe piece flanged one end and other end suitable for flexible coupling	No	1	Rate Only
7.7.5		Item sc 4.2.5 500mm dia flexible coupling	No	2	Rate Only
7.7.6		Item sc 4.2.6 500mm dia. MS pipe piece, flanged one End and other end suitable for flexible coupling	No	2	Rate Only

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

7.7.7	Item sc 4.2.7 500mm dia. MS flanged pipe piece with pubble flange	No	2		Rate Only
7.7.8	Item sc 4.3.1 500mm dia. MS pipe piece both ends plain with pubble flange	No	2		Rate Only
7.7.9	Item sc 4.3.2 500mm dia. Flexible coupling	No	4		Rate Only
7.7.10	Item sc 4.3.3 500mm dia. MS pipe piece, both ends plain with pubble flange	No	2		Rate Only
7.7.11	Item sc 4.3.4 500mm dia. Flange adaptor	No	2		Rate Only
7.7.12	Item sc 4.3.5 500mm dia., RSV Gate Valve flanged both ends	No	2		Rate Only
7.7.13	Item sc 4.3.6 500mm dia x 500mm dia. MS Tee-Piece	No	2		Rate Only
7.7.14	Item sc 4.3.7 500mm dia. MS pipe piece flanged one end and other end suitable for flexible coupling	No	2		Rate Only
Sub-Total Carried Forward					
Sub-Total Brought Forward					
7.8	BALANCING CHAMBERS Fabrication, supply, transport and install and test the following pipe fittings and valves. All items to be approved by Engineer prior to ordering				
7.8.1	Item 4.6.1 500mm dia. Flange adaptor	No	1		Rate Only
7.8.2	Item 4.6.2 500mm dia. Flange, GMS pipe piece with pubble flange	No	1		Rate Only
7.8.3	Item 4.6.3 500mm dia. Flanged GMS pipe piece with pubble flange	No	1		Rate Only
7.8.4	Item 4.6.4 500mm dia. RSV Gate Valve	No	1		Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY					

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ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8		SECTION 8: CONCRETE (RESERVOIR)				
8.1	SABS 1200G	CONCRETE				
		CONCRETE (STRUCTURAL)				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.1	<u>Rough</u>				
8.1.1		a) Rough vertical plane to walls, footings and slabs in reservoir below ground	m ²	540		
8.1.2		b) Rough vertical planes to walls and footings in pipe chambers and sumps below the ground	m ²	100		
8.1.3		c) Vertical planes to curved wall of 125mm high concrete apron	m ²	100		
	8.2.2	<u>Smooth</u>				
8.1.4		a) Vertical plane to curved walls above ground level	m ²	4250		
8.1.5		b) Horizontal plane to roof soffit	m ²	3620		
8.1.6		c) Vertical plane to beam around roof	m ²	285		
8.1.7		d) Inclined plane to form shear cone at column heads	m ²	600		
8.1.8		e) Circular vertical plane to 400 mm diameter columns	m ²	570		
8.1.9		f) horizontal plane to roof slab soffit of chambers	m ²	216		
8.1.10		g) 25mm drip notch as per details on drawing	m	650		
	8.2.5	Narrow Widths (up to 300 mm wide)				
8.1.11		a) In reservoir structure	m	300		
8.1.12		b) In vertical plane to chamber roof slab	m	300		
8.1.13		c) Form 25 mm x 25 mm fillets around all exposed edges	m	450		
	8.2.6	Box Out Holes / Form Voids				
		Small, circular, of diameter up to and including 0,65 m				
		Over and up to and including				
8.1.14		1) - 0,5 m deep	number	4		
		Large, other than circular, of area over 0,1 m2 and up and including to 1,5 m2				

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

8.1.15	Over including 1) -	and	up to and 0,5 m deep	number	4		
Sub-Total Carried Forward							

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Sub-Total Brought Forward					
8.2	SABS 1200G	SCHEDULED REINFORCEMENT ITEMS			
8.2.1	8.3.1	a) High tensile steel bars	t	360	
8.2.2	8.3.1	b) Mild steel bars	t	15	
8.2.2	PSG 8.3.2	High-tensile welded mesh	t	2	
8.3	SABS 1200GF	PRESTRESSED CONCRETE The prestressed of the concrete reservoir should be done by specialist contractor. The specialist contractor to produce the construction drawing that need to be approved by the Engineer.			
8.3.1	8.2.1	Establishing on site, maintenance and dismantling of tensioning beds and equipment	Sum	1	
8.3.2	8.2.7.1	Supply and install sheathing and tendons	MN.m	6450	
8.3.3	8.2.7.2	Supply and install anchorages and couplers to suit tendons			
8.3.4	8.2.3.4	a) Anchorage at jacking end	MN	1250	
8.3.5	8.2.6	Post-tensioning and grouting of items supplied under items 8.3.2 and 8.3.3	No	650	
8.4	SABS 1200G	CONCRETE (STRUCTURAL)			
8.4.1	8.4	SCHEDULED CONCRETE ITEMS			
8.4.1	8.4.2	Blinding layers			
8.4.2	8.4.1	(a) Blinding layer in class 15/19 concrete (100 mm thick)	m ³	380	
8.4.3	8.4.2	(b) No fines concrete, 85 mm thick	m ³	380	
8.4.4	8.4.3	(c.) No fines concrete, sub-soil drainage system	m ³	270	
8.4.5	8.4.3	<u>Strength Concrete</u>			
8.4.6	8.4.3	<u>c) Grade 35/19 in reservoir:</u>			
8.4.7	8.4.4	i) To wall footings	m ³	228	
8.4.8	8.4.5	ii) Reservoir floor slab	m ³	980	
8.4.9	8.4.6	iii) To Reservoir walls	m ³	780	
8.4.10	8.4.7	iv) To internal columns and column heads (shear cones)	m ³	174	

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

8.4.8		v) To roof and roof ring beam	m ³	130		
8.4.9		(d) Grade 25/19 for apron and v-drain	m ³	80		Rate Only
Sub-Total Carried Forward						

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Sub-Total Brought Forward					
	8.4.4	<u>Unformed surface finishes</u>			
		a) Wood-floated finish			
8.4.10		i) To top of concrete	m ²	152	
		<u>b) Steel-floated finish</u>			
8.4.11		i) To top of foundation inside reservoir and strip footing	m ²	450	
8.4.12		ii) To reservoir floor	m ²	3620	
8.4.13		iii) To reservoir roof	m ²	3620	
8.4.14		iv) To top of reservoir wall	m ²	110	
8.4.15		v) To top of roof beam	m ²	135	
8.4.16		vi) To top of chamber floor slabs	m ²	5	
8.4.17		vii) To top of chamber walls	m ²	5	
8.4.18		viii) To top of chamber roof	m ²	5	
8.4.19	PSG 3.7.3	Pipes and conduits embedded in concrete	No	16	
8.4.20	PSG 3.7	Grouting of pipes / specials through walls	No	22	
	8.5	<u>Joints</u>			
8.4.21		a) Wall construction joint complete as detailed on the drawings on the drawings with stainless steel	m	1260	
8.4.22		b) Joints between floor panels with 250 mm wide bandage and rear water bar complete as detailed on the drawings.	m	1070	
8.4.23		c) Joints between floor and wall complete as detailed on the drawing	m	302	
8.4.24		(d) Joints between reservoir wall and apron/drain (20mm Jointex with approved sealant)	m	302	Rate Only
8.5		<u>Miscellaneous</u>			
		-			
8.5.1		a) Supply and install under reservoir wall footings 2 No Layers of DPC to form slip joint as per details on the drawings.	m ²	200	
8.5.2		b) Supply and install Thermo insulation as detailed on the drawings.	m ²		Rate Only
8.5.3		c) Supply and install 10 mm thick soft board to top of foundations and strip footing as per drawing	m ²		Rate Only
8.5.4		110 mm diameter perforated drain pipe	m	1100	
8.5.5					

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

		Supply and install Limitless bearing strip between wall and roof	m ²	110		
8.5.6		Waterproof membrane under floor - 1 mm LLD Polyethylene sheeting	m ²	3620		
8.5.7		Supply and install roof weep holes as per drawing	No	48		
		<u>Reservoir and chamber access and ventilation</u>				
8.5.8		a) Manhole cover and frame for reservoir access complete with locking bar and lock	number	4		
8.5.9		b) Supply and install hot dipped galvanised roof ventilators to the reservoir roof as indicated on the drawings	number	16		
Sub-Total Carried Forward						
Sub-Total Brought Forward						
8.5.10		c) Internal ladder to reservoir installed complete as indicated on the drawings	number	2		
8.5.11		d) External ladder to reservoir installed complete as indicated on the drawings	number	2		
8.5.12		e) PVC step irons installed in chambers	number	96		
8.5.13		f) Supply and install level control devices	No	2		
8.5.14	PSG 3.13	Testing for water tightness	Sum	1		
8.5.16	PSG 3.13	Cleansing and disinfection	Sum	1		
8.5.17		AGGREGATE 19MM Nominal aggregate supplied as insulation layer and placed uniformly to 100mm thick on reservoir roof	m ²	3470		Rate Only
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

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Tenderer

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Witness 1

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Employer

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Witness 1

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Witness 2



ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9		SCHEDULE 9 - BUILDINGS				
9.1		PUMP STATION AND GUARD HOUSE				
	SABS 1200 D	EARTHWORKS				
	8.3.3	Restricted excavation				
9.1.1		a) Excavation in all materials and use for backfill - including temporary stockpiling to form embankment later (compacted to 95% MOD AASHTO)	m ³	80		Rate Only
		b) Extra-over for				
9.1.2		(1) Hard rock excavation	m ³			Rate Only
9.1.3	8.3.5	Extra excavation in all materials to provide working space around structure	m ²	132		Rate Only
9.2	SABS 1200 G	CONCRETE				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
9.2.1		(1) Column	m ²	40		Rate Only
9.2.2		(2) Beams	m ²	70		Rate Only
		(b) Horizontal				
9.2.3		(1) Beams	m ²	20		Rate Only
9.2.4		(2) Roof	m ²	130		Rate Only
	8.2.5	Narrow widths (up to 250mm wide)				
9.2.5		(a) Smooth	m	70		Rate Only
	8.2.6	Box out holes/form voids				
		(a) Large, other than circular, of area over 0,1m ² and up to and including 2 m ²				

Tenderer

Witness 1

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

9.2.6		Over and up to (1) 0m - 0.6m deep	No	4		Rate Only
9.3	8.3	SCHEDULED REINFORCEMENT ITEMS				
	8.3.1	Steel Bars				
9.3.1		(1) Mild Steel reinforcement	t	1		Rate Only
9.3.2		(2) High-tensile reinforcement	t	6		Rate Only
9.3.2		(3) mesh reinforcing	Kg	520		Rate Only
Sub-Total Carried Forward						

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Sub-Total Brought Forward					
9.4	8.4	SCHEDULED CONCRETE ITEMS			
	8.4.2	Blinding layer			
9.4.1		(a) 50mm minimum thickness grade 15MPa/19mm concrete under floors	m ²	130	Rate Only
	8.4.3	Strength concrete			
		(a) Grade 25MPa/19mm concrete,			
9.4.2		(i) Foundation	m ³	20	Rate Only
9.4.3		(ii) Floors	m ³	35	Rate Only
9.4.4		(iii) Column and beam	m ³	10	Rate Only
9.4.5		(iv) Roofs	m ³	35	Rate Only
9.4.6		(v) Anchor pipes	m ³	10	Rate Only
	8.4.4	Unformed surface finishes			
9.4.7		(a) Wood-floated finish	m ²	135	Rate Only
9.4.8		(b) Steel-floated finish	m ²	195	Rate Only
	8.7	GROUTING IN ALL THICKNESS WALLS			
9.4.9		(a) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No	4	Rate Only
9.5	SABS 1200 H	STRUCTURAL STEELWORK			
		Supply, fabrication, install and test			
9.5.1		(1) 254x146x31 Kg/m I-Beam with trolley and chain hoist for 1 Ton lifting capacity	No	1	Rate Only
	SABS 1200 HA	STRUCTURAL STEELWORK (SUNDRY ITEMS)			
	8.3.4	Flooring, Complete and Installed with frames			
9.5.2		(a) Open grid floors	m ²	20	Rate Only

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Sub-Total Carried Forward						
Sub-Total Brought Forward						
9.6	PB	BUILDING WORK SPECIFICATIONS				
	PB 8.2	SCHEDULE ITEMS				
	PB 8.2.1	Brickwork				
9.6.1		(a) 230mm wall, inner wall built with claytile clay brick and other wall built with FBX clay face brick (in stack bond with keyed joints).	m ²	298		Rate Only
9.6.2		(b) 230mm wall below ground foundation with clay brick	m ²	58		Rate Only
	PB 8.2.6	Plasterwork				
9.6.3		(a) One coat 1:4 cement plaster	m ²	298		Rate Only
	PB 8.2.7	Floor screeds and finishes				
9.6.4		(a) Normal cement screed	m ²	110		Rate Only
	PB 8.2.9	Waterproofing				
9.6.5		(a) Damp-proof course in walls	m	60		Rate Only
9.6.6		(b) Damp-proof membrane under floors	m ²	110		Rate Only
9.6.7		(c.) Damp-proof course under window sills	m	15		Rate Only
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
9.6.8		(a) Provisional Sum for Doors	Sum	1		Rate Only
9.6.9		(b) Contractor's overheads and profit on item....	%			Rate Only

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

	PB 8.2.18	Metal work				
9.6.10		(a) Provisional Sum for windows and louvres	Sum	1		Rate Only
9.6.11		(b) Contractor's overheads and profit on item.....	%			Rate Only
Sub-Total Carried Forward						
Sub-Total Brought Forward						
	PB 8.2.20	Painting				
9.6.10		(a) Internal walls: Paint one coat primer and two coats low odour premium quality velvet sheen wall coatings that is highly washable and stain resistant. Paint to comply to total volatile organic compounds limits of the green building society - Table IEQ-9.1	m ²	298		Rate Only
	PB 8.2.22	Miscellaneous				
9.6.11		(a) Water supply pipework and plumbing for all sanitary ware for 2 standpipes, including connection to nearest potable water supply line, 100m away.	Sum	1		Rate Only
9.6.12		(b) Sanitation facility including toilet seat, wash hand, plumbing at the Guardhouse, construction of septic tank (5m ³) and connected to the guardhouse	Sum	1		Rate Only
9.6.12		(c.) Precast concrete lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	20		Rate Only
9.6.13		(d) Supply and install 5Kg fire extinguishers complete in fire closet with signage and all accessories	No	4		Rate Only
9.6.14		(e.) Building signage	Prov-sum	1	5620	Rate Only
9.6.15		(f) Contractor's overheads and profit on item 9.5.29	%			Rate Only
9.6.16		(g) Provisional sum for small power and lighting	Prov-sum	1	85600	Rate Only

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

9.6.17	(h) Contractor's overheads and profit on item.... Fencing Rates for fencing shall include supply and installation including all excavations and concrete for post foundations.	%			Rate Only
9.6.18	(a) Invisible fence type 3m high supplied and installed complete with 4mm dia. High tensile wires.	m	450		Rate Only
9.6.19	(b) Invisible fencing gate 6m wide 3m high supplied and installed complete including rails and wheels with 4mm dia. High tensile wires.	No	1		Rate Only
9.6.20	(c.) Invisible fence pedestrian gate 3m high supplied and installed complete with 4mm dia. High tensile wires.	No	1		Rate Only
Sub-Total Carried Forward					

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Sub-Total Brought Forward					
9.7	SABS 1200 L	STEEL PIPES AND FITTINGS			
		PUMP STATION			
		Fabrication, supply, transport and install and test the following pipe fittings and valves. All items to be approved by Engineer prior to ordering			
9.7.1		Item 1 300x350mm dia. Eccentric reducer flanged	No	2	Rate Only
9.7.2		Item 2 350mm dia. Expansion joint piece	No	2	Rate Only
9.7.2a		Item 3 350mm dia. 45 deg. Flanged MS elbow	No	2	Rate Only
9.7.3		Item 4 350mm Dia. Flanged MS pipe	No	2	Rate Only
9.7.4		Item 5 350mm dia. Flanged MS pipe	No	2	Rate Only
9.7.5		Item 6 350mm dia, RSV Gate Valve	No	2	Rate Only
9.7.6		Item 7 350mm dia. Y-filter both end flange	No	2	Rate Only
9.7.7		Item 8 500mm x 350mm dia. Flange Y-piece	No	2	Rate Only
9.7.8		Item 9 500mm dia. Flanged MS pipe	No	1	Rate Only
9.7.9		Item 10 500mm dia. Flanged MS pipe	No	1	Rate Only
9.7.10		Item 11 500mm dia flanged MS pipe with pubble flange	No	1	Rate Only
9.7.11		Item 12 250mmx300mm concetric reducer flanged	No	2	Rate Only
9.7.12		Item 13 300mm dia. Expansion joint piecee	No	2	Rate Only
9.7.12		Item 14 300mm dia. Check Valve	No	2	Rate Only
9.7.13		Item 15 300mm dia. Gate Valve	No	2	Rate Only
9.7.14		Item 16 300mm dia. 90 deg. Flanged MS elbow	No	2	Rate Only
9.7.15		Item 17 300mm dia. Flanged MS pipe	No	2	Rate Only
9.7.16		Item 18 300mm dia. 90 deg. Flanged MS elbow	No	2	Rate Only
9.7.17		Item 19 300mm dia. Flanged MS pipe	No	2	Rate Only
9.7.18		Item 20 300mm dia. 90 deg. Flanged MS elbow	No	2	Rate Only
9.7.19		Item 21 300mm dia. Flanged MS pipe	No	2	Rate Only
9.7.20		Item 22 300mm dia. 90 deg. Flanged MS elbow	No	1	Rate Only
9.7.21		Item 23 300mm dia. Flanged MS pipe	No	1	Rate Only
9.7.22		Item 24 300mm dia. RSV Gate Valve	No	1	Rate Only
9.7.23		Item 25 300mm x 300mm dia. Flanged MS pipe T-piece	No	1	Rate Only
9.7.24		Item 26 300mm dia. Flanged MS pipe	No	1	Rate Only
9.7.25		Item 27 300mm dia. Flanged MS pipe	No	1	Rate Only

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 4 (CONSTRUCTION
OF 2x10ML CONCRETE RESERVOIR)**

9.7.26	Item 28 300mm dia. 90 deg. Flanged MS elbow	No	1		Rate Only
9.7.27	Item 29 300mm dia. Flanged MS pipe	No	1		Rate Only
9.7.28	Item 30 300mm dia. 90 deg. Flanged MS elbow	No	1		Rate Only
9.7.29	Item 31 300mm dia. Flanged MS pipe	No	1		Rate Only
9.7.30	Item 32 300mm x 500mm dia. Concentric reducer	No	1		Rate Only
9.7.31	Item 33 500mm dia. Flanged MS pipe	No	2		Rate Only
9.7.32	Item 34 500mm dia. 90 deg. Flanged MS elbow	No	1		Rate Only
9.7.33	Item 35 500mm flange adaptor	No	4		Rate Only
9.7.34	Item 36 500mm flexible coupling	No	4		Rate Only
9.7.35	254x146x31 I-beam with base plate both end, including steel bracket to support a 300mm dia. Pipe (3300mm long)	No	2		Rate Only
9.7.36	Supply, deelliver, install, test and commission a water pump (ETA 250-40) or similar, duty point Q= 832m3/h @ 30m	No	2		
Sub-Total Carried Forward					
Sub-Total Brought Forward					
9.8	ELETRICAL INSTALLATION AND TELEMETRY				
9.8.1	Supply, deliver and install electrical equipment all complete				
9.8.1	Apply, supply, deliver, install and commision 150KVA transformer	Sum	1		
9.8.2	Design, supply, deliver, install and commission of the Telemetry at the pump station and reservoir site	Sum	1		
9.8.3	Supply, deliveer and install a stand by 150KVA generator at the pump station and				

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN
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		reservoir site including the foundation and platform	Sum	1		
9.8.4		Design, supply, deliver, install and commission of electrical cable at the pump station and reservoir site	Sum	1		Rate Only
9.8.5		Design, supply, deliver, install and commission of outside light around the site (4 position of light)	Sum	1		Rate Only
9.8.6		Testing the complete installation and issue of COC	Sum	1		
		CONSTRUCTION WORKS BY TARGETED ENTERPRISES				
10	10.1 PCY	Payments associated with the construction works carried out by CIDB rated targeted enterprise subcontractors appointed in consultation with the Employer in terms of section PCY	Prov. Sum			R16,967,053.38
	10.2	Extra-over item 10.1 for contractor's handling fee on an estimated amount	%			
	10.3	Contractor's charge for the procurement of subcontractor, management support, assistance, coaching, guidance, mentoring and supervision of targeted enterprises (subcontractor)	Sum			
SUB-TOTAL CARRIED FORWARD TO SUMMARY						

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SUMMARY

SECTION	ITEM	AMOUNT
Section 1	PRELIMINARY & GENERAL	
Section 2	PROVISIONAL SUMS, PRIME COST ITEMS, DAY WORKS AND TEMPORARY WORKS	
Section 3	SITE CLEARANCE	
Section 4	EARTHWORKS	
Section 5	MEDIUM PRESSURE PIPELINES	
Section 6	BEDDING	
Section 7	RESERVOIR CHAMBERS	
Section 8	CONCRETE (RESERVOIR)	
Section 9	BUILDINGS	
Sub-Total		
10% Contengencies		
10% Excalation		
Sub-Total		
15% VAT		
CARRIED FORWARD TO THE FORM OF OFFER		

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Witness 1

Witness 2