



## INDEX

Schedule	Description
1	Preliminary And General
2	Site Works
3	Workshop
4	Inlet Works
5	Daff Building
6	GAC Filters
7	Chlorine Dosing Building
8	Chlorine Contact Channel
9	Backwash Recycle Pump Station
10	Flow Meter Chambers
11	Pipe Specials
12	Health And Safety
13	Environmental
14	Targeted Enterprise Administration

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

ITEM NO.	PMT REF	DESCRIPTION	UNIT	QTY	RATE	Amount R c
	SABS 1200A	<b><u>SCHEDULE 1 : PRELIMINARY AND GENERAL</u></b>				
<b>1.1</b>	<b>8.3</b>	<b><u>FIXED CHARGE AND VALUE RELATED ITEMS</u></b>				
1.1.1		Contractual Requirements (PSA 4.1)	Sum	1		
	8.3.2	<b><u>Establish facilities on the site</u></b>				
	8.3.2.1	i) <u>Facilities for Engineer</u>				
1.1.2		a) Engineer's office (PSA 4.3.1)	Sum	1		
1.1.3		b) Name board (PSA 4.3.2)	No	2		
1.1.4		c) Survey assistants and material	Sum	1		
	8.3.2.2	ii) <u>Facilities for Contractor</u>				
1.1.5		a) Offices and storage sheds	Sum	1		
1.1.6		e) Ablution and latrine facilities	Sum	1		
1.1.7		g) Water supplies, electric power & communications	Sum	1		
1.1.8		h) Dealing with water	Sum	1		
1.1.9	8.3.3	Other fixed charge obligations	Sum	1		
1.1.10	8.3.4	Removal of Engineer's and Contractor's site establishment from site on completion of works.	Sum	1		
<b>1.2</b>	SABS 1200A 8.4	<b><u>TIME RELATED ITEMS</u></b>				
1.2.1	8.4.1	Contractual requirements (PSA 4.2)	Sum	1		
1.2.2	PSA 4.2.1	a) Mobilisation Period	Month	1		
1.2.3	PSA 4.2.1	b) Construction Period (Including commissioning)	Month	18		
1.2.4	PSA 4.2.2	c) Operating and Training Period	Month	4		
1.2.5	PSA 4.2.3	d) Maintaining the site (waiting for water supply)	Month	6		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

ITEM NO.	PMT REF	DESCRIPTION	UNIT	QTY	RATE	Amount R c
		<b>BROUGHT FORWARD</b>				
1.2.6	8.4.2	<b><u>Operations and maintenance of facilities on site</u></b>				
	8.4.2.1	Facilities for Engineer for duration of construction (SABS 1200 AB)				
1.2.7		a) Engineer's office	Sum	1		
1.2.8		b) Name board	No	2		
1.2.9		c) Survey assistants and material	Sum	1		
1.2.10	8.4.2	<b><u>Operations and maintenance of facilities on site</u></b>				
	8.4.2.2	<u>Facilities for the Contractor for the duration of the Contract, except where otherwise stated</u>				
1.2.11		a) Offices and storage sheds	Sum	1		
1.2.12		d) Ablution and latrine facilities	Sum	1		
1.2.13		f) Water supplies, electric power & communications	Sum	1		
1.2.14		g) Dealing with water	Sum	1		
1.2.15	8.4.3	Supervision for duration of the construction	Sum	1		
1.2.16	8.4.4	Company and Head Office overhead costs for the duration of the Contract	Sum	1		
1.2.17	8.4.5	Other time related obligations	Sum	1		
1.2.18	PSA 4.4	Excavation by hand in all materials to expose existing services	m <sup>3</sup>	500		
<b>1.3</b>	<b>8.5</b>	<b><u>SUMS STATED PROVISIONALLY BY THE ENGINEER (PSA 4.6)</u></b>				
1.3.1	4.6.1	a) Project Liaison Officer	Prov. Sum	1	R 832,500.00	
1.3.2	4.6.2	b) Project Liaison Committee	Prov. Sum	1	R 1,332,000.00	
1.3.3	4.6.3	c) Sum instruction by the engineer	Prov. Sum	1	R 20 000 000.00	
1.3.4	4.6.4	<u>Extra-over Item 1.3.1 to 1.3.2 for handling fee:</u>	%	R 22,164,500		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



Project No: 150362/3

**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>TOTAL CARRIED TO NEXT PAGE</b>						

ITEM NO.	PMT REF	DESCRIPTION	UNIT	QTY	RATE	Amount R c
		<b>BROUGHT FORWARD</b>				
1.3.5	4.6.5	d) AS BUILT Survey	Prov. Sum	1	R 50,000	
1.3.6	4.6.6	<u>Extra-over Item 1.3.4 for handling fee:</u>	%	R 50,000		
1.3.7	4.6.7	e) For work to be executed by nominated Mechanical & Electrical subcontractor	Prov. Sum	1	R 93,271,685	
1.3.8	4.6.8	<u>Extra-over Item 1.3.6 for handling fee:</u>	%	R 93,271,685		
<b>1.4</b>	DWK 6	<b><u>DAYWORKS</u></b>				
	DWK 6.1	Labourers:				
1.4.1		a) Unskilled	hr	800		
1.4.2		b) Semi-skilled	hr	500		
1.4.3		c) Skilled	hr	400		
1.4.4	DWK 6.2	Foreman	hr	500		
	DWK 6.3	Tipper trucks:				
1.4.5		a) 3 - 5 ton	hr	300		
1.4.6	DWK 6.4	Loader (0.5m <sup>3</sup> bucket)	hr	500		
1.4.7	DWK 6.5	Excavator (CAT 350 or similar)	hr	500		
1.4.8	DWK 6.9	Pedestrian roller (Bomag BW90 or similar)	hr	200		
1.4.9	DWK 6.10	Wackers (Rammers)	hr	200		
1.4.10	DWK 6.12	Water truck (minimum 10 000liter capacity)	hr	100		
1.4.11	DWK 6.15	LDV (1800cc minimum)	km	2000		
	DWK 6.16	Materials under dayworks				
1.4.12		a) Materials acquired under dayworks material	Prov. Sum	1	R 200,000	

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

**TOTAL CARRIED FORWARD TO SUMMARY**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b><u>SCHEDULE 2: Site Works</u></b>				
		<i>This Section of the Bill of Quantities covers all preparation activities for the entire site</i>				
2.1	SABS 1200 C 8.2.1	Clear and grub	ha	4.5		
2.2	8.2.3	Remove and grub all trees and tree stumps regardless of girth	ha	4.5		
2.3	8.2.10	Remove topsoil to a nominal depth of 150mm, stockpile and replace as instructed by Engineer	m <sup>3</sup>	6500		
2.4		Take samples of excavated material to soil lab and test to classify excavated material	No	10		
	PB	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	PB 8.2	SCHEDULED ITEMS				
	PB 8.2.22	Miscellaneous				
		Fencing: Rates for fencing shall include supply and installation including all excavations and concrete for post foundations.				
2.5		(a) An equivalent to (clear view) type fencing 3m high supplied and installed complete with 4mm dia. high tensile wires. Aperture sizes: 76.2mm x 12.7mm c/c. Mesh coating: line galvanised with epoxy coating. Including all excavations and concrete for foundations.	m	1000		
2.6		(b) An equivalent to (clear view) fencing gate 6m wide 3m high supplied and installed complete including rails and wheels with 4mm dia. high tensile wires. Aperture sizes: 76.2mm x 12.7mm c/c. Mesh coating: line galvanised with epoxy coating.	No.	3		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
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<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
2.7		<b>BROUGHT FORWARD</b>  (c ) An equivalent to (clear view) type fencing pedestrian gate 3m high supplied and installed complete with 4mm dia. high tensile wires. Aperture sizes: 76.2mm x 12.7mm c/c. Mesh coating: line galvanised with epoxy coating.	No.	1		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

TOTAL CARRIED FORWARD TO SUMMARY						

*Tenderer*

*Witness 1*

*Witness 2*

*Employer*

*Witness 1*

*Witness 2*



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
4.1	SABS 1200 D	<b><u>SCHEDULE 3: Workshop</u></b>				
		<b><u>SECTION: EARTHWORKS</u></b>				
		8.3.2 Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling (compacted to 98% MOD AASHTO):				
		(1) Structure foundations	m <sup>3</sup>	640		
		8.3.4 Importing of materials				
		(a) Extra-over for importation of materials from commercial sources				
		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	100		
		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	480		
		8.3.5 Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	160		
		8.3.9 Extra-over for backfill or fill against structures using:				
		(a) 2% Sand cement	m <sup>3</sup>	32		
		(b) 5% Sand cement	m <sup>3</sup>	32		
3.2	SABS 1200 G	<b><u>SECTION : CONCRETE</u></b>				
		8.2 SCHEDULED FORMWORK ITEMS				
		8.2.2 Smooth				
		(a) Vertical				
		(1) Sides of surfacebeds and plinths	m <sup>2</sup>	24		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
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TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
3.2.2		(2) Sides of beams and suspended slabs	m <sup>2</sup>	320		
	8.2.5	Narrow Widths (up to 250 mm wide)				
		(a) Smooth				
3.2.3		(1) Sides of strip footings	m	350		
	8.3	SCHEDULED REINFORCEMENT ITEMS				
	8.3.1	Steel Bars				
3.2.4		(1) Mild steel reinforcement	t	1		
3.2.5		(2) High-tensile reinforcement 25 mm dia. Basic price	t	30		
		Extra over for the following dia.				
3.2.6		(a) 10 mm	t	6		
3.2.7		(b) 12 mm	t	6		
3.2.8		(c) 16 mm	t	6		
3.2.9		(d) 20 mm	t	6		
3.2.10		(e) Mesh Ref. 395	t	6		
	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.2	Blinding layer				
4.2.11		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	280		
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
3.2.12		(1) Screed	m <sup>3</sup>	30		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
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TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(b) Grade 35Mpa/19mm concrete for:				
3.2.13		(1) Surface Beds	m <sup>3</sup>	40		
3.2.14		(2) Strip footings	m <sup>3</sup>	40		
3.2.15		(3) Suspended slabs	m <sup>3</sup>	96		
3.2.16		(4) Plinths	m <sup>3</sup>	16		
	8.4.4	Unformed surface finishes				
3.2.17		(a) Wood-floated finish	m <sup>2</sup>	264		
3.2.18		(b) Steel-floated finish	m <sup>2</sup>	560		
	8.5	<b>JOINTS</b>				
		(a) Supply and install to 10mm Expansion joints in floor, suspended panels complete for all thicknesses a combination of the following:				
3.2.19		(1) Joint filler	m	40		
3.2.20		(2) Joint sealant	m	40		
3.2.21		(3) Dumbbell waterstop with centre bulb	m	40		
3.2.22		(4) Formwork for Toggle type expansion joint	m	40		
3.2.23		(d) Supply and install isolation joints at floor slab interfaces with walls and columns complete with bond breaking joint filler and sealant	m	192		
<b>3.3</b>	SABS 1200 HA	<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
3.3.1		Supply and installation complete of Hot dip galvanized and painted I-Beam suspended from concrete soffit to support the overhead travelling crane including splicing and anchoring. Size: 406x178x67 beam.	t	2.50		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
<b>3.4</b>	<b>PB</b>	<b>BROUGHT FORWARD</b>				
		<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	PB 8.2.1	Brickwork				
3.4.1		(a) 280 mm cavity walls FBX clay face brick - matt brown or equivalent in stretcher bond with keyed joints. (FBX brick external skin only)	m <sup>2</sup>	480		
3.4.2		(b) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	160		
3.4.3		(c) 220 mm general purpose clay brick walls to receive plaster and paint (Internal walls)	m <sup>2</sup>	90		
	PB 8.2.2	Air Bricks (Cementitious)				
3.4.4		(a) External	No	16		
3.4.5		(b) Internal	No	16		
	PB 8.2.4	Window Sills				
3.4.6		(a) External: Fibre cement window sill as wall coping to slope 3° outwards	m	32		
	8.2.6	Plasterwork				
3.4.7		(a) One coat 1:4 cement plaster	m <sup>2</sup>	640		
	PB 8.2.8	Paving				
3.4.8		(a) 200x100x80mm charcoal S-A (or equivalent) class 35 concrete paving bricks laid in Herringbone pattern	m <sup>2</sup>	240		
	PB 8.2.9	Waterproofing				
3.4.9		(a) Damp-proof course in walls	m	160		
3.4.10		(b) Damp-proof membrane under floors	m <sup>2</sup>	288		
TOTAL CARRIED TO NEXT PAGE						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
3.4.11		(c) Damp-proof course under window sills	m	24		
3.4.12		3 ply “malthoid” supported over galvanized cavity tray placed over full width (280mm) of cavity walls below concrete roof complete	m	144		
	PB 8.2.14	Gutters and downpipes				
3.4.13		(a) Supply and install (cast into concrete roof) 100mm cast iron Type 3550 fullbores. Install to manufacturer's specification.	No.	4		
3.4.14		(b) Supply and install dia. 90mm welded HDPE downpipes complete with supports. Extend downpipes to outside of building through brickwork and terminate.	m	25		
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
3.4.15		(a) Provisional Sum for Doors	Sum	1	R125,000.00	
3.4.16		Contractor's overheads and profit on item 3.4.15	%	R125,000		
3.4.17		(b) Supply and install insulated Aluminium roller shutter door electrically operated with manual crank & gearbox operation override to be painted. 3.0m high and 3.0 wide.	No.	2		
	PB 8.2.18	Metal Work				
3.4.18		(a) Provisional Sum for Windows and Louvres	Sum	1	R62,500.00	
3.4.19		Contractor's overheads and profit on item 3.4.18	%	R 62,500		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
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Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.2.20	Painting				
3.4.20		(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.	m <sup>2</sup>	640		
	8.2.22	Miscellaneous				
3.4.21		Supply and install 75mm thick reinforced lintels	m	45		
3.4.22		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	8		
3.4.23		Supply and install 30m fire hose reel complete including pressure gauge.	No.	3		
3.4.24		Fire Signage	Prov Sum	1	R10,000.00	
3.4.25		Contractor's overheads and profit on item 3.4.24	%	R10,000.00		
3.4.26		Building signage	Prov Sum	1	R 6,250.00	
3.4.27		Contractor's overheads and profit on item 3.4.26	%	R6,250.00		
3.4.28		Provisional sum for small power and lighting	Prov Sum	1	R375,000.00	
3.4.29		Contractor's overheads and profit on item 3.4.28	%	R375,000.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
4.1	SABS 1200 D	<b><u>SCHEDULE 4: INLET WORKS</u></b>				
		<b><u>SECTION: EARTHWORKS</u></b>				
		8.3.3 Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling (compacted to 98% MOD AASHTO):				
		(1) Structure foundations	m <sup>3</sup>	736.0		
		8.3.4 Importing of materials				
		(a) Extra-over for importation of materials from commercial sources (sourced within 400km from site)				
		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	306		
		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	306		
		8.3.5 Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	800		
		8.3.9 Extra-over for backfill or fill against structures using:				
		(a) 2% Soil cement	m <sup>3</sup>	50		
		(b) 5% Soil cement	m <sup>3</sup>	50		
4.2	SABS 1200 G	<b><u>SECTION : CONCRETE</u></b>				
		8.2 SCHEDULED FORMWORK ITEMS				
		8.2.2 Smooth				
		(a) Vertical				
		(1) Sides of beams and suspended slabs	m <sup>2</sup>	627		
4.2.2		(2) Columns (Round)	m <sup>2</sup>	300		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
4.2.3		(3) Columns (Rectangular)	m <sup>2</sup>	300		
4.2.4		(4) Sides of surfacebeds and plinths	m <sup>2</sup>	21.6		
4.2.5		(5) Sides of strip footings and bases	m <sup>2</sup>	70		
4.2.6		(6) Walls	m <sup>2</sup>	1058.915		
		(b) Horizontal				
4.2.7		(1) Soffits of suspended slabs and concrete roofs	m <sup>2</sup>	1222.272		
4.2.8		(2) Soffits of beams	m <sup>2</sup>	53.05		
		(c) Sloped				
4.2.9		(1) Gantry Crane Corbels	m <sup>2</sup>	10		
4.2.10		(2) Stairs	m <sup>2</sup>	83.2		
	8.2.5	Narrow Widths (up to 250 mm wide)				
4.2.11		(a) Smooth	m	104		
4.2.12		(b) 125mm x 125mm chamfer	m	48		
	8.2.6	Box out holes/form voids				
		(a) Small, circular, of diameter up to and including 0,35 m				
		Over and up to				
4.2.13		(1) 0 m 0,5 m deep	No.	10		
		(b) Large, circular, of diameter up to and including 0,5 m				
		Over and up to				
4.2.14		(1) 0 m 0,5 m deep	No.	10		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
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PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(c) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>				
		Over and up to				
4.2.15		(1) 0 m 0,8 m deep	No.	10		
	8.3	<b>SCHEDULED REINFORCEMENT ITEMS</b>				
	8.3.1	<b>Steel Bars</b>				
4.2.16		(1) Mild steel reinforcement	t	9		
4.2.17		(2) High-tensile reinforcement 32 mm dia. Basic price	t	90		
		Extra over for the following diameter:				
4.2.18		(a) 10 mm	t	10		
4.2.19		(b) 12 mm	t	10		
4.2.20		(c) 16 mm	t	20		
4.2.21		(d) 20 mm	t	30		
4.2.22		(e) 25 mm	t	20		
4.2.23		(f) Extra over for mesh reinforcing to floors	t	9		
	8.4	<b>SCHEDULED CONCRETE ITEMS</b>				
	8.4.2	<b>Blinding layer</b>				
4.2.24		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	672		
	8.4.3	<b>Strength concrete</b>				
		(a) Grade 20Mpa/19mm concrete for:				
4.2.25		(i) Mass Concrete	m <sup>3</sup>	10		
4.2.26		(ii) Screed	m <sup>3</sup>	672		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.2.27		(iii) Benching	m <sup>3</sup>	10		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
4.2.28		(i) Beams	m <sup>3</sup>	40		
4.2.29		(ii) Columns	m <sup>3</sup>	26		
4.2.30		(iii) Surface beds	m <sup>3</sup>	75		
4.2.31		(iv) Suspended slabs	m <sup>3</sup>	150		
4.2.32		(v) Plinths	m <sup>3</sup>	11		
4.2.33		(vi) Stairs	m <sup>3</sup>	32		
4.2.34		(vii) Walls	m <sup>3</sup>	192		
4.2.35		(viii) Splitter	m <sup>3</sup>	74		
		Extra over for the following additives:				
4.2.36		(a) Crystalline waterproofing agent (5kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	74		
4.2.37		(b) Polypropylene Fibre additive or equivalent (0.6kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	268		
	8.4.4	Unformed surface finishes				
4.2.38		(a) Steel-floated finish	m <sup>2</sup>	672		
4.2.39		(b) Power-floated finish	m <sup>2</sup>	672		
	8.5	JOINTS				
4.2.40		(a) Supply and install saw cut joints complete	m	189		
4.2.41		(b) Supply and install 20mm expansion joints between columns complete with bond breaking joint filler and sealant	m	189		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
4.2.42		(c) Expansion joints in brickwork: Joints from 10mm Joint filler with hoop iron bands every 4th brick course protruding through joint filler. Hoop iron bands built in minimum 300mm to either side of joint. Seal joints with polyethylene joint sealer	m	429		
4.2.43		(d) Supply and install Construction joints in all walls with 250mm PVC dumbbell waterstop with centre bulbs centrally placed at construction joints	m	212		
4.2.44		(e) Supply and install Construction joints in all floors with 250mm PVC watertight expansion joint externally placed at construction joints	m	105		
4.2.45		(f) Bearing surface joint on 450mm walls with 2 layers of "malthoid" or equivalent	m	20		
4.2.46		(g) Supply and install 20mm Expansion joints between all walls up to 8m deep including joint filler and joint sealant	m <sup>2</sup>	20		
4.2.47		(h) Supply and install 20cm wide and 2mm thick watertight isolation joint in walls and floors as per suppliers specifications with adhesives compatible with drinking water	m	20		
4.2.48		(i) Supply and install 200mm Construction joints with dumbbell waterstop without centre bulbs at construction joints	m	212		
4.2.49		(j) Supply and install self adhesive waterstop	m	20		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.2.50		(k) Supply and install crystalline waterproofing agent as per suppliers specifications	m <sup>2</sup>	20		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.7	GROUTING IN ALL THICKNESS WALLS				
4.2.51		(a) Grout into place pipes with diameter less than 300mm	No.	10		
4.2.52		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	2		
4.2.53		(c) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	2		
4.2.54		(d) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	5		
	PSG 13.3	Testing for water tightness complete with temporary closing of all boxouts, pipes and openings				
4.2.55		(a) Inlet Chamber	No.	1		
<b>4.3</b>	SABS 1200HA	<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
4.3.1		Supply and install GRP grating laid on angle iron which is bolted to the concrete wall with M10 anchor bolts	m <sup>2</sup>	114		
		SS316 Handrails assembly complete				
4.3.2		(a) Sloping handrails on stairs	m	75		
4.3.3		(b) Horizontal handrails	m	150		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.3.4		Supply and install recta-grid (or equal approved) galvanised mild steel flooring with 40x4.5 mm bearer bars and laid on angle irons bolted to concrete wall with M10 anchor bolts including all square cutting and set in position and banded around all edges. Price shall include cutting to fit for each application.	m <sup>2</sup>	114		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
4.3.5		<b>BROUGHT FORWARD</b>  Supply and install hot dip galvanized 90 mm high kickplates complete	m	25		
<b>4.4</b>	<b>PB</b>	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	PB 8.2	SCHEDULED ITEMS				
	PB 8.2.1	Brickwork				
4.4.1		(a) 280 mm cavity walls FBX clay face brick - matt brown or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	818		
4.4.2		(b) 280 mm cavity walls FBS clay face brick - Smooth Red or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	223		
4.4.3		(d) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	142		
	PB 8.2.2	Air Bricks				
4.4.4		(a) External	No	20		
4.4.5		(b) Internal	No	20		
	PB 8.2.7	Floor screeds and finishes				
4.4.6		(a) Normal cement screed	m <sup>2</sup>	611		
	PB 8.2.9	Waterproofing				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.4.7		(a) Damp-proof course in walls	m	150		
4.4.8		(b) Damp-proof membrane under floors	m <sup>2</sup>	611		
4.4.9		(c) Damp-proof course under window sills	m	50		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.14	Gutters and downpipes				
4.4.10		(a) Supply and install industrial aluminium box gutters 150 x 150 mm to match roof sheeting colour. 0.9mm thick. Install to manufacturer's specification	m	136		
4.4.11		(b) Supply and install 100 x 75 mm aluminium downpipes to match roof sheeting colour. Install to manufacturer's specification	m	144		
4.4.12		(c) Type 3550 fulbores including pvc threaded socket, extension and aluminium collector box. Install to manufacturer's specification	No	10		
4.4.13		(d) Full flow ductile iron flat grate fullbore 100mm including pvc threaded socket and 90deg side roof outlet	No	10		
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
4.4.14		(a) Provisional Sum for Doors	Sum	1	R250,000.00	
4.4.15		Contractor's overheads and profit on item 4.4.14	%	R250,000		
4.4.16		(b) Meranti skirting 90mm x 18mm	m	274		
	PB 8.2.18	Metal Work				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.4.17		(a) Provisional Sum for Windows and Louvres	Sum	1	R187,500.00	
4.4.18		Contractor's overheads and profit on item 4.4.17	%	R187,500		
4.4.19		(b) Supply and install insulated Aluminium roller shutter door electrically operated with manual crank & gearbox operation override to be painted. 4.2m high and 4.2m wide.	No.	1		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.19	Resilient Floor finishes				
4.4.20		(a) F3. Epoxy self-smoothing system: Two-part self-smoothing and broadcasting epoxy system. Applied approx. 2mm thick as per manufacturer's instructions in colour as per sample approved by architect and with gloss finish. (Sikafloor 263SL ZA or equivalent). Joints as recommended by manufacturer.	m <sup>2</sup>	168		
	PB 8.2.22	Miscellaneous				
4.4.21		(a) Water supply pipework and plumbing for all sanitary ware for 5 standpipes, including connection to nearest potable water supply line, 50m away.	Sum	1		
4.4.22		Core drill dia 150mm holes in concrete of depth up to 500mm.	No	10		
4.4.23		Precast Concrete Lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	10		
4.4.24		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	10		
4.4.25		19mm granite stone placed on concrete rooftops	m <sup>3</sup>	92		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

4.4.26		Supply and install torch applied 2 layer bitumen membranes for waterproofing of concrete roofs	m <sup>2</sup>	611		
4.4.27		3 ply “malthoid” between brickwork and concrete roof	m <sup>2</sup>	50		
4.4.28		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	10		
4.4.29		Supply and install 30m fire hose reel complete including pressure gauge.	No.	5		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
4.4.30		Fire Signage	Prov Sum	1	R 187,500.00	
4.4.31		Contractor's overheads and profit on item 4.4.30	%	R187,500.00		
4.4.32		Building signage	Prov Sum	1	R 12,500.00	
4.4.33		Contractor's overheads and profit on item 4.4.32	%	R 12,500.00		
4.4.34		Provisional sum for small power and lighting	Prov Sum	1	R 600,000.00	
4.4.35		Contractor's overheads and profit on item 4.4.34	%	R600,000.00		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
5.1	SABS 1200 D	<b><u>SCHEDULE 5: DAFF Building</u></b>				
		<b><u>SECTION: EARTHWORKS</u></b>				
	8.3.3	Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling (compacted to 98% MOD AASHTO):				
5.1.1		(1) Structure foundations	m <sup>3</sup>	15000		
	8.3.4	Importing of materials				
		(a) Extra-over for importation of materials from commercial sources (sourced within 400km from site)				
5.1.2		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	500		
5.1.3		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	4000		
5.1.4	8.3.5	Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	800		
	8.3.9	Extra-over for backfill or fill against structures using:				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.1.5		(a) 2% Soil cement	m <sup>3</sup>	500		
5.1.6		(b) 5% Soil cement	m <sup>3</sup>	500		
<b>5.2</b>	<b>SABS 1200 G</b>	<b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
5.2.1		(1) Sides of beams and suspended slabs	m <sup>2</sup>	600		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.2.2		(2) Columns (Round)	m <sup>2</sup>	160		
5.2.3		(3) Columns (Rectangular)	m <sup>2</sup>	170		
5.2.4		(4) Sides of surfacebeds and plinths	m <sup>2</sup>	300		
5.2.5		(5) Sides of strip footings and bases	m <sup>2</sup>	70		
5.2.6		(6) Walls	m <sup>2</sup>	7100		
		(b) Horizontal				
5.2.7		(1) Soffits of suspended slabs and concrete roofs	m <sup>2</sup>	710		
5.2.8		(2) Soffits of beams	m <sup>2</sup>	190		
		(c) Sloped				
5.2.9		(1) Gantry Crane Corbels	m <sup>2</sup>	20		
5.2.10		(2) Stairs	m <sup>2</sup>	78		
	8.2.5	Narrow Widths (up to 250 mm wide)				
5.2.11		(a) Smooth	m	350		
5.2.12		(b) 125mm x 125mm chamfer	m	210		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

	8.2.6	Box out holes/form voids				
		(a) Small, circular, of diameter up to and including 0,35 m				
		Over and up to				
5.2.13		(1) 0 m 0,5 m deep	No.	40		
		(b) Large, circular, of diameter up to and including 0,5 m				
		Over and up to				
5.2.14		(1) 0 m 0,5 m deep	No.	30		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(c) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>				
		Over and up to				
5.2.15		(1) 0 m 0,8 m deep	No.	12		
	8.3	<b>SCHEDULED REINFORCEMENT ITEMS</b>				
	8.3.1	<b>Steel Bars</b>				
5.2.16		(1) Mild steel reinforcement	t	3		
5.2.17		(2) High-tensile reinforcement 32 mm dia. Basic price	t	340		
		Extra over for the following diameter:				
5.2.18		(a) 10 mm	t	64		
5.2.19		(b) 12 mm	t	64		
5.2.20		(c) 16 mm	t	64		
5.2.21		(d) 20 mm	t	64		
5.2.22		(e) 25 mm	t	64		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.2.23		(f) Extra over for mesh reinforcing to floors	t	20		
	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.2	Blinding layer				
5.2.24		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	1800		
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
5.2.25		(i) Mass Concrete	m <sup>3</sup>	130		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.2.26		(ii) Screed	m <sup>3</sup>	20		
5.2.27		(iii) Benching	m <sup>3</sup>	20		
		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
5.2.28		(i) Beams	m <sup>3</sup>	80		
5.2.29		(ii) Columns	m <sup>3</sup>	40		
5.2.30		(iii) Surface beds	m <sup>3</sup>	750		
5.2.31		(iv) Suspended slabs	m <sup>3</sup>	190		
5.2.32		(v) Plinths	m <sup>3</sup>	15		
5.2.33		(vi) Stairs	m <sup>3</sup>	35		
5.2.34		(vii) Walls	m <sup>3</sup>	1240		
		Extra over for the following additives:				
5.2.35		(a) Crystalline waterproofing agent (5kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	2180		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.2.36	8.4.4	(b) Polypropylene Fibre additive or equivalent (0.6kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	800		
		Unformed surface finishes				
5.2.37		(a) Steel-floated finish	m <sup>2</sup>	2000		
5.2.38	8.5	(b) Power-floated finish	m <sup>2</sup>	500		
		JOINTS				
5.2.39		(a) Supply and install saw cut joints complete	m	162		
5.2.40		(b) Supply and install 20mm expansion joints between columns complete with bond breaking joint filler and sealant	m	68		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.2.41		(c) Expansion joints in brickwork: Joints from 10mm joint filler with hoopiron bands every 4th brick course protruding through joint filler. Hoopiron bands built in minimum 300mm to either side of joint. Seal joints with polyethylene joint sealer	m	153		
5.2.42		(d) Supply and install Construction joints in all walls with 250mm PVC dumbbell waterstop with centre bulbs centrally placed at construction joints	m	140		
5.2.43		(e) Supply and install Construction joints in all floors with 250mm PVC watertight expansion joint externally placed at construction joints	m	250		
5.2.44		(f) Bearing surface joint on 450mm walls with 2 layers of "malthoid" or equivalent	m	265		

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Tenderer

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.2.45		(g) Supply and install 20mm Expansion joints between all walls up to 8m deep including joint filler and joint sealant	m <sup>2</sup>	275		
5.2.46		(h) Supply and install 20cm wide and 2mm thick watertight isolation joint in walls and floors as per suppliers specifications with adhesives compatible with drinking water	m	271		
5.2.47		(i) Supply and install 200mm Construction joints with dumbbell waterstop without centre bulbs at construction joints	m	3227		
5.2.48		(j) Supply and install self-adhesive waterstop	m	440		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
5.2.49	8.7	<b>BROUGHT FORWARD</b>				
		(k) Supply and install crystalline waterproofing agent as per suppliers specifications	m <sup>2</sup>	81		
		<b>GROUTING IN ALL THICKNESS WALLS</b>				
5.2.50		(a) Grout into place pipes with diameter less than 300mm	No.	20		
5.2.51		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	40		
5.2.52		(c) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	16		
5.2.53		(d) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	6		

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Tenderer

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

	PSG 3.13	Testing for water tightness complete with temporary closing of all boxouts, pipes and openings				
5.2.54		(a) Flocculation tank	No.	4		
5.2.55		(b) All DAFF units separately	No.	9		
5.2.56		(c) Outlet Boxes with outlet concrete conduit	sum	1		
5.2.57		(d) Backwash channel	sum	1		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
<b>5.3</b>	<b>SABS 1200 HA</b>	<b>BROUGHT FORWARD</b>				
		<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
5.3.1		Supply and install GRP grating laid on angle iron which is bolted to the concrete wall with M10 anchor bolts	m <sup>2</sup>	50		
		Design, supply and installation of Structural steel roof structure complete including bolts. Corrosion Protection of portal frames and purlins: Hot dip galvanized, 2 coats of two part epoxy primer to 75µm. Apply polyurethane enamel (two-part) to 50µm. Roofs in the following areas:				
5.3.2		(a) DAFF Building Roof	t	36		
5.3.3		(b) Sloping handrails on stairs	m	60		
5.3.4		(c) Horizontal handrails	m	350		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.3.5		Supply and install recta-grid (or equal approved) galvanised mild steel flooring 40x4.5 mm bearer bars and laid on angle irons bolted to concrete wall with M10 anchor bolts including all square cutting and set in position and banded around all edges. Price shall include cutting to fit for each application.	m <sup>2</sup>	500		
5.3.6		Supply and install hot dip galvanized 90 mm high kickplates complete	m	200		
<b>5.4</b>	<b>SABS 1200 LD</b>	<b><u>SECTION : SEWERS</u></b>				
5.4.1	8.2.1	Supply and install 300x300mm subsoil drainage system complete with centred 110mm diameter perforated flexible drainage pipe surrounded with 19mm nominal diameter stone and enclosed with geofabric blanket or equivalent	m	400		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.4.2	8.2.2	110mm ND class 9 PVC pipe Specials	m	200		
5.4.3		(a) 110mm ND 90deg bend	No.	5		
5.4.4		(b) 110mm ND 45deg bend	No.	5		
5.4.5		(c) 110mm ND 45deg lateral	No.	5		
	8.2.3	Manholes  Precast Concrete Manhole as per details on SANS 1200LD Drawing LD - 5:				

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Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

		(a) 1250mm Diameter Precast Concrete Manhole (25MPa/19mm concrete) complete with joint sealer between rings, and 2 layers of 150mm wide x 0.3mm thick LDPE self adhesive tape between joints on prime coat applied in accordance with manufacturers specifications, and type 4A cover and frame, and step irons, for the following depths:				
5.4.6		0 - 3m deep	No.	4		
5.4.7		3 - 5m deep	No.	4		
<b>5.5</b>	<b>PB</b>	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	<b>PB 8.2</b>	<b>SCHEDULED ITEMS</b>				
	<b>PB 8.2.1</b>	<b>Brickwork</b>				
5.5.1		(a) 280 mm cavity walls FBX clay face brick matt brown or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	500		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.5.2		(b) 280 mm cavity walls FBS clay face brick Smooth Red or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	500		
5.5.3		(c) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	170		
	<b>PB 8.2.2</b>	<b>Air Bricks</b>				
5.5.4		(a) External	No	20		

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.5.5	PB 8.2.7	(b) Internal	No	20		
		Floor screeds and finishes				
5.5.6	PB 8.2.9	(a) Normal cement screed	m <sup>2</sup>	400		
		Waterproofing				
5.5.7		(a) Damp-proof course in walls	m	1000		
5.5.8		(b) Damp-proof membrane under floors	m <sup>2</sup>	1800		
5.5.9		(c) Damp-proof course under window sills	m	100		
	PB 8.2.12	Roof covering				
		Supply and install cladding and sheeting complete including ancillaries: Klip-lok 406 concealed fixing profile in AZ200 Zincalume sheeting with Colorbond Ultra Ore Grey finish. Roof covering is deemed to include all accessories (various applications of flashings, polyclosers, fascias, barge boards etc.). Finish material and thickness including performance fastening accessories to be compatible with roofing products and to be class 4 quality. All to manufacturer's recommendations:				
5.5.10		(a) DAFF filtration Building Roof	m <sup>2</sup>	1250		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.14	Gutters and downpipes				
5.5.11		(a) Supply and install industrial aluminium box gutters 150 x 150 mm to match roof sheeting colour. 0.9mm thick. Install to manufacturer's specification	m	200		
5.5.12		(b) Supply and install 100 x 75 mm aluminium downpipes to match roof sheeting colour. Install to manufacturer's specification	m	100		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.5.13		(c) Type 3550 fulbores including pvc threaded socket, extension and aluminium collector box. Install to manufacturer's specification	No	8		
5.5.14		(d) Full flow ductile iron flat grate fullbore 100mm including pvc threaded socket and 90deg side roof outlet	No	8		
	PB 8.2.16	Ceiling and roof Insulation				
5.5.15		(a) Thermal insulation 01 - Steel roof structure: Vapour Barrier: Heavy duty, double sided reflective foil laminate (Sisalation FR430), or equivalent, with advanced fire retardant properties installed over insulation board. Fixing and lapping to manufacturer's specifications. Terminate in gutter where applicable. Insulation: 135mm Isotherm or equivalent laid between trusses on battens.	m <sup>2</sup>	1250		
5.5.16		(b) Thermal insulation 02 - Steel roof structure: 80mm isoboard or equivalent installed and fixed over purlins between steel structure and roof sheeting to manufacturer's recommendation.	m <sup>2</sup>	1250		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
5.5.17		(a) Provisional Sum for Doors	Sum	1	R275,000.00	
5.5.18		Contractor's overheads and profit on item 5.5.17	%	R275,000		
5.5.19		(b) Meranti skirting 90mm x 18mm	m	1000		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

	PB 8.2.18	Metal Work				
5.5.20		(a) Provisional Sum for Windows and Louvres	Sum	1	R250,000.00	
5.5.21		Contractor's overheads and profit on item 5.5.20	%	R250,000		
5.5.22		(b) Supply and install insulated Aluminium roller shutter door electrically operated with manual crank & gearbox operation override to be painted. 4.2m high and 4.2m wide.	No.	1		
	PB 8.2.19	Resilient Floor finishes				
5.5.23		(a) F3. Epoxy self-smoothing system: Two-part self-smoothing and broadcasting epoxy system. Applied approx. 2mm thick as per manufacturer's instructions in colour as per sample approved by architect and with gloss finish. (Sikafloor 263SL ZA or equivalent). Joints as recommended by manufacturer.	m <sup>2</sup>	3000		
5.5.24		(b) Supply and install 3mm green anchor knob sheeting or equivalent as per the suppliers specification including welds applied to walls, roofs and floors	m <sup>2</sup>	700		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
5.5.25		(c) Inside corner extrusion weld as per suppliers specifications	m	500		
5.5.26		(d) Outside corner extrusion weld as per suppliers specifications	m	500		
5.5.27		(e) Standard-Extrusion-Overlap-Weld as per suppliers specifications	m	100		
5.5.28		(f) scarifying floors before applying grout	m <sup>2</sup>	700		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.5.29	PB 8.2.22	(g) Grout on floors for anchor knob installation as per suppliers specifications	m <sup>2</sup>	700		
		Miscellaneous				
5.5.30		(a) Water supply pipework and plumbing for all sanitary ware for 5 standpipes, including connection to nearest potable water supply line, 50m away.	Sum	1		
5.5.31		Core drill dia 150mm holes in concrete of depth up to 500mm.	No	10		
5.5.32		Precast Concrete Lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	60		
5.5.33		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	20		
5.5.34		19mm granite stone placed on concrete rooftops	m <sup>3</sup>	20		
5.5.35		Supply and install torch applied 2 layer bitumen membranes for waterproofing of concrete roofs	m <sup>2</sup>	200		
5.5.36		3 ply "malthoid" between brickwork and concrete roof	m <sup>2</sup>	200		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
5.5.37		<b>BROUGHT FORWARD</b>  Supply and install cast into concrete 150mm wide, 185 long corrosion resistant stainless steel 316 step irons fully encapsulated with yellow polypropylene and slip resistant.	No.	400		
5.5.38		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	20		

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

5.5.39	Supply and install 30m fire hose reel complete including pressure gauge.	No.	5		
5.5.40	Fire Signage	Prov Sum	1	R25,000.00	
5.5.41	Contractor's overheads and profit on item 5.5.40	%	R25,000		
5.5.42	Building signage	Prov Sum	1	R50,000.00	
5.5.43	Contractor's overheads and profit on item 5.5.42	%	R50,000		
5.5.44	Provisional sum for small power and lighting	Prov Sum	1	R1,375,000.00	
5.5.45	Contractor's overheads and profit on item 5.5.44	%	R1,375,000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
6.1	SABS 1200 D	<b><u>SCHEDULE 6: GAC FILTRATION BUILDING</u></b>				
	8.3.3	<b><u>SECTION: EARTHWORKS</u></b>				
		Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling (compacted to 98% MOD AASHTO):				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.1.1		(1) Structure foundations	m <sup>3</sup>	8300		
	8.3.4	Importing of materials				
		(a) Extra-over for importation of materials from commercial sources (sourced within 400km from site)				
6.1.2		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	250		
6.1.3		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	1500		
6.1.4	8.3.5	Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	530		
	8.3.9	Extra-over for backfill or fill against structures using:				
6.1.5		(a) 2% Soil cement	m <sup>3</sup>	200		
6.1.6		(b) 5% Soil cement	m <sup>3</sup>	200		
<b>6.2</b>	SABS 1200 G	<b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
6.2.1		(1) Sides of beams and suspended slabs	m <sup>2</sup>	340		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
6.2.2		(2) Columns (Round)	m <sup>2</sup>	90		
6.2.3		(3) Columns (Rectangular)	m <sup>2</sup>	95		
6.2.4		(4) Sides of surfacebeds and plinths	m <sup>2</sup>	170		
6.2.5		(5) Sides of strip footings and bases	m <sup>2</sup>	40		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.2.6		(6) Walls	m <sup>2</sup>	4000		
		(b) Horizontal				
6.2.7		(1) Soffits of suspended slabs and concrete roofs	m <sup>2</sup>	400		
6.2.8		(2) Soffits of beams	m <sup>2</sup>	110		
		(c) Sloped				
6.2.9		(1) Gantry Crane Corbels	m <sup>2</sup>	12		
6.2.10		(2) Stairs	m <sup>2</sup>	44		
	8.2.5	Narrow Widths (up to 250 mm wide)				
6.2.11		(a) Smooth	m	200		
6.2.12		(b) 125mm x 125mm chamfer	m	120		
	8.2.6	Box out holes/form voids				
		(a) Small, circular, of diameter up to and including 0,35 m				
		Over and up to				
6.2.13		(1) 0 m 0,5 m deep	No.	25		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(b) Large, circular, of diameter up to and including 0,5 m				
		Over and up to				
6.2.14		(1) 0 m 0,5 m deep	No.	20		
		(c) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.2.15		Over and up to	No.	8		
		(1) 0 m 0,8 m deep				
	8.3	SCHEDULED REINFORCEMENT ITEMS				
	8.3.1	Steel Bars				
6.2.16		(1) Mild steel reinforcement	t	2		
6.2.17		(2) High-tensile reinforcement 32 mm dia. Basic price	t	200		
		Extra over for the following diameter:				
6.2.18		(a) 10 mm	t	35		
6.2.19		(b) 12 mm	t	35		
6.2.20		(c) 16 mm	t	35		
6.2.21		(d) 20 mm	t	35		
6.2.22		(e) 25 mm	t	35		
6.2.23		(f) Extra over for mesh reinforcing to floors	t	25		
	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.2	Blinding layer				
6.2.24		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	700		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
6.2.25		(i) Mass Concrete	m <sup>3</sup>	100		
6.2.26		(ii) Screed	m <sup>3</sup>	15		
6.2.27		(iii) Benching	m <sup>3</sup>	15		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
6.2.28		(i) Beams	m <sup>3</sup>	50		
6.2.29		(ii) Columns	m <sup>3</sup>	25		
6.2.30		(iii) Surface beds	m <sup>3</sup>	420		
6.2.31		(iv) Suspended slabs	m <sup>3</sup>	110		
6.2.32		(v) Plinths	m <sup>3</sup>	10		
6.2.33		(vi) Stairs	m <sup>3</sup>	20		
6.2.34		(vii) Walls	m <sup>3</sup>	700		
		Extra over for the following additives:				
6.2.35		(a) Xypex C500 NF Xypex or equivalent (5kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	1230		
6.2.36		(b) Polypropylene Fibre additive or equivalent (0.6kg used/m <sup>3</sup> concrete, measured in m <sup>3</sup> concrete)	m <sup>3</sup>	420		
	8.4.4	Unformed surface finishes				
6.2.37		(a) Steel-floated finish	m <sup>2</sup>	1200		
6.2.38		(b) Power-floated finish	m <sup>2</sup>	300		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.5	<b>JOINTS</b>				
6.2.39		(a) Supply and install saw cut joints complete	m	90		
6.2.40		(b) Supply and install 20mm expansion joints between columns complete with bond breaking joint filler and sealant	m	45		

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.2.41	(c)	Expansion joints in brickwork: Joints from 10mm joint filler with hoopiron bands every 4th brick course protruding through joint filler. Hoopiron bands built in minimum 300mm to either side of joint. Seal joints with polyethylene joint sealer	m	90		
6.2.42	(d)	Supply and install Construction joints in all walls with 250mm PVC dumbbell waterstop with centre bulbs centrally placed at construction joints	m	100		
6.2.43	(e)	Supply and install Construction joints in all floors with 250mm PVC watertight expansion joint externally placed at construction joints	m	150		
6.2.44	(f)	Bearing surface joint on 450mm walls with 2 layers of "malthoid" or equivalent	m	150		
6.2.45	(g)	Supply and install 20mm Expansion joints between all walls up to 8m deep including joint filler and joint sealant	m <sup>2</sup>	160		
6.2.46	(h)	Supply and install 20cm wide and 2mm thick watertight isolation joint in walls and floors as per suppliers' specifications with adhesives compatible with drinking water	m	160		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
6.2.47		(i) Supply and install 200mm Construction joints with dumbbell waterstop without centre bulbs at construction joints	m	2000		
6.2.48		(j) Supply and install self adhesive waterstop	m	250		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.2.49		(k) Supply and install crystalline waterproofing agent as per suppliers specifications	m <sup>2</sup>	50		
	8.7	GROUTING IN ALL THICKNESS WALLS				
6.2.50		(a) Grout into place pipes with diameter less than 300mm	No.	12		
6.2.51		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	24		
6.2.52		(c) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	10		
6.2.53		(d) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	4		
6.2.54		(e) Grout into place penstock frames	No.	5		
	PSG 3.13	Testing for water tightness complete with temporary closing of all boxouts, pipes and openings				
6.2.55		(a) All GAC Filter units separately	No.	9		
6.2.56		(b) Outlet Boxes with outlet concrete conduit	sum	1		
6.2.57		(c) Backwash channel	sum	1		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
6.3	SABS 1200 HA	<b>BROUGHT FORWARD</b>  <b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
6.3.1		Supply and install GRP grating laid on angle iron which is bolted to the concrete wall with M10 anchor bolts	m <sup>2</sup>	50		

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

		Design, supply and installation of Structural steel roof structure complete including bolts. Corrosion Protection of portal frames and purlins: Hot dip galvanized, 2 coats of two part epoxy primer to 75µm. Apply polyurethane enamel (two-part) to 50µm. Roofs in the following areas:				
6.3.2		(a) DAFF Building Roof	t	14		
		SS316 Handrails assembly complete				
6.3.3		(a) Sloping handrails on stairs	m	40		
6.3.4		(b) Horizontal handrails	m	230		
6.3.5		Supply and install recta-grid (or equal approved) galvanised mild steel flooring 40x4.5 mm bearer bars and laid on angle irons bolted to concrete wall with M10 anchor bolts including all square cutting and set in position and banded around all edges. Price shall include cutting to fit for each application.	m <sup>2</sup>	300		
6.3.6		Supply and install hot dip galvanized 90 mm high kickplates complete	m	120		
<b>6.4</b>	<b>SABS 1200 LD</b>	<b><u>SECTION : SEWERS</u></b>				
6.4.1	8.2.1	Supply and install 300x300mm subsoil drainage system complete with centred 110mm diameter perforated flexible drainage pipe surrounded with 19mm nominal diameter stone and enclosed with geofabric blanket or equivalent	m	250		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
6.4.2	8.2.2	110mm ND class 9 PVC pipe	m	100		
		Specials				
6.4.3		(a) 110mm ND 90deg bend	No.	5		
6.4.4		(b) 110mm ND 45deg bend	No.	5		

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Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.4.5	8.2.3	(c) 110mm ND 45deg lateral  Manholes  Precast Concrete Manhole as per details on SANS 1200LD Drawing LD - 5:  (a) 1250mm Diameter Precast Concrete Manhole (25MPa/19mm concrete) complete with joint sealer between rings, and 2 layers of 150mm wide x 0.3mm thick LDPE self adhesive tape between joints on prime coat applied in accordance with manufacturers specifications, and type 4A cover and frame, and step irons, for the following depths:	No.	5		
6.4.6		0 - 3m deep	No.	3		
6.4.7		3 - 5m deep	No.	3		
<b>6.5</b>	<b>PB</b>	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	<b>PB 8.2</b>	<b>SCHEDULED ITEMS</b>				
	<b>PB 8.2.1</b>	<b>Brickwork</b>				
6.5.1		(a) 280 mm cavity walls FBX clay face brick matt brown or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	280		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
6.5.2		<b>BROUGHT FORWARD</b>  (b) 280 mm cavity walls FBS clay face brick Smooth Red or equivalent in stretcher bond with keyed joints. (FBX Clay brick both internal and external skin)	m <sup>2</sup>	280		

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Employer

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.5.3		(c) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	130		
	PB 8.2.2	Air Bricks				
6.5.4		(a) External	No	12		
6.5.5		(b) Internal	No	12		
	PB 8.2.7	Floor screeds and finishes				
6.5.6		(a) Normal cement screed	m <sup>2</sup>	250		
	PB 8.2.9	Waterproofing				
6.5.7		(a) Damp-proof course in walls	m	560		
6.5.8		(b) Damp-proof membrane under floors	m <sup>2</sup>	1000		
6.5.9		(c) Damp-proof course under window sills	m	60		
	PB 8.2.12	Roof covering				
		Supply and install cladding and sheeting complete including ancillaries: Klip-lok 406 concealed fixing profile in AZ200 Zinalume sheeting with Colorbond Ultra Ore Grey finish. Roof covering is deemed to include all accessories (various applications of flashings, polyclosers, fascias, barge boards etc.). Finish material and thickness including performance fastening accessories to be compatible with roofing products and to be class 4 quality. All to manufacturer's recommendations:				
6.5.10		(a) GAC filtration Building Roof	m <sup>2</sup>	550		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.14	Gutters and downpipes				
6.5.11		(a) Supply and install industrial aluminium box gutters 150 x 150 mm to match roof sheeting colour. 0.9mm thick. Install to manufacturer's specification	m	120		

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Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.5.12		(b) Supply and install 100 x 75 mm aluminium downpipes to match roof sheeting colour. Install to manufacturer's specification	m	60		
6.5.13		(c) Type 3550 fulbores including pvc threaded socket, extension and aluminium collector box. Install to manufacturer's specification	No	5		
6.5.14		(d) Full flow ductile iron flat grate fullbore 100mm including pvc threaded socket and 90deg side roof outlet	No	5		
	PB 8.2.16	Ceiling and roof Insulation				
6.5.15		(a) Thermal insulation 01 - Steel roof structure: Vapour Barrier: Heavy duty, double sided reflective foil laminate (Sisalation FR430), or equivalent, with advanced fire retardant properties installed over insulation board. Fixing and lapping to manufacturer's specifications. Terminate in gutter where applicable. Insulation: 135mm Isotherm or equivalent laid between trusses on battens.	m <sup>2</sup>	550		
6.5.16		(b) Thermal insulation 02 - Steel roof structure: 80mm isoboard or equivalent installed and fixed over purlins between steel structure and roof sheeting to manufacturer's recommendation.	m <sup>2</sup>	550		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
6.5.17		(a) Provisional Sum for Doors	Sum	1	R 187,500.00	

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.5.18		Contractor's overheads and profit on item 6.5.17	%	R 187,500		
6.5.19		(b) Meranti skirting 90mm x 18mm	m	1000		
	PB 8.2.18	Metal Work				
6.5.20		(a) Provisional Sum for Windows and Louvres	Sum	1	R187,500.00	
6.5.21		Contractor's overheads and profit on item 6.5.20	%	R187,500		
	PB 8.2.19	Resilient Floor finishes				
6.5.22		(a) F3. Epoxy self-smoothing system: Two-part self-smoothing and broadcasting epoxy system. Applied approx. 2mm thick as per manufacturer's instructions in colour as per sample approved by architect and with gloss finish. (Sikafloor 263SL ZA or equivalent). Joints as recommended by manufacturer.	m <sup>2</sup>	1700		
6.5.23		(b) Supply and install 3mm green anchor knob sheeting or equivalent as per the suppliers specification including welds applied to walls, roofs and floors	m <sup>2</sup>	350		
6.5.24		(c) Inside corner extrusion weld as per suppliers specifications	m	250		
6.5.25		(d) Outside corner extrusion weld as per suppliers specifications	m	250		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
6.5.26		(e) Standard-Extrusion-Overlap-Weld as per suppliers specifications	m	50		
6.5.27		(f) scarifying floors before applying grout	m <sup>2</sup>	350		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.5.28	PB 8.2.22	(g) Grout on floors for anchor knob installation as per suppliers specifications	m <sup>2</sup>	350		
		Miscellaneous				
6.5.29		(a) Water supply pipework and plumbing for all sanitary ware for 5 standpipes, including connection to nearest potable water supply line, 50m away.	Sum	1		
6.5.30		Core drill dia 150mm holes in concrete of depth up to 500mm.	No	10		
6.5.31		Precast Concrete Lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	30		
6.5.32		19mm granite stone placed on concrete rooftops	m <sup>3</sup>	15		
6.5.33		Supply and install torch applied 2 layer bitumen membranes for waterproofing of concrete roofs	m <sup>2</sup>	100		
6.5.34		3 ply "malthoid" between brickwork and concrete roof	m <sup>2</sup>	120		
6.5.35		Supply and install cast into concrete 150mm wide, 185 long corrosion resistant stainless steel 316 step irons fully encapsulated with yellow polypropylene and slip resistant.	No.	220		
6.5.36		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	25		
6.5.37		Supply and install 30m fire hose reel complete including pressure gauge.	No.	3		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
6.5.38		<b>BROUGHT FORWARD</b>  Fire Signage	Prov Sum	1	R 18,750.00	
6.5.39		Contractor's overheads and profit on item 6.5.38	%	R 18,750.00		

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Witness 2

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Employer

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Witness 1

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

6.5.40		Building signage	Prov Sum	1	R31,250.00	
6.5.41		Contractor's overheads and profit on item 6.5.40	%	R31,250.00		
6.5.42		Provisional sum for small power and lighting	Prov Sum	1	R540,000.00	
6.5.43		Contractor's overheads and profit on item 6.5.42	%	R540,000.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
7.1	SABS 1200 D	<b><u>SCHEDULE 7: Chlorine Building</u></b>  <b><u>SECTION: EARTHWORKS</u></b>				
	8.3.2	Restricted excavation				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

7.1.1		(a) Excavate in all materials and use for backfill - including temporary stockpiling (compacted to 98% MOD AASHTO):				
	8.3.4	(1) Structure foundations	m <sup>3</sup>	400		
		Importing of materials				
7.1.2		(a) Extra-over for importation of materials from commercial sources				
		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	60		
7.1.3		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	300		
7.1.4	8.3.5	Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	100		
	8.3.9	Extra-over for backfill or fill against structures using:				
7.1.5		(a) 2% Sand cement	m <sup>3</sup>	20		
7.1.6		(b) 5% Sand cement	m <sup>3</sup>	20		
<b>7.2</b>	SABS 1200 G	<b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
7.2.1		(1) Sides of surfacebeds and plinths	m <sup>2</sup>	15		
<b>TOTAL CARRIED NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
7.2.2		<b>BROUGHT FORWARD</b>				
		(2) Sides of beams and suspended slabs	m <sup>2</sup>	200		
	8.2.5	Narrow Widths (up to 250 mm wide)				

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Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

7.2.3	(a) Smooth					
	(1) Sides of strip footings	m	220			
	8.3 SCHEDULED REINFORCEMENT ITEMS					
	8.3.1 Steel Bars					
7.2.4	(1) Mild steel reinforcement	t	1			
7.2.5	(2) High-tensile reinforcement 25 mm dia. Basic price	t	18			
	Extra over for the following dia.					
7.2.6	(a) 10 mm	t	3.6			
7.2.7	(b) 12 mm	t	3.6			
7.2.8	(c) 16 mm	t	3.6			
7.2.9	(d) 20 mm	t	3.6			
7.2.10	(e) Mesh Ref. 395	t	3.6			
	8.4 SCHEDULED CONCRETE ITEMS					
	8.4.2 Blinding layer					
7.2.11	(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	180			
	8.4.3 Strength concrete					
	(a) Grade 20Mpa/19mm concrete for:					
7.2.12	(1) Screed	m <sup>3</sup>	18			

**TOTAL CARRIED NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
		(b) Grade 35Mpa/19mm concrete for:				
7.2.13		(1) Surface Beds	m <sup>3</sup>	25		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

7.2.14		(2) Strip footings	m <sup>3</sup>	25		
7.2.15		(3) Suspended slabs	m <sup>3</sup>	60		
7.2.16		(4) Plinths	m <sup>3</sup>	10		
	8.4.4	Unformed surface finishes				
7.2.17		(a) Wood-floated finish	m <sup>2</sup>	165		
7.2.18		(b) Steel-floated finish	m <sup>2</sup>	350		
	8.5	JOINTS				
		(a) Supply and install to 10mm Expansion joints in floor, suspended panels complete for all thicknesses a combination of the following:				
7.2.19		(1) Joint filler	m	25		
7.2.20		(2) Joint sealant	m	25		
7.2.21		(3) Dumbbell waterstop with centre bulb	m	25		
7.2.22		(4) Formwork for Toggle type expansion joint	m	25		
7.2.23		(b) Supply and install isolation joints at floor slab interfaces with walls and columns complete with bond breaking joint filler and sealant	m	120		
	8.7	GROUTING				
7.2.24		(a) Grout into place pipes with diameter less than 300mm	No.	20		
7.2.25		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	10		
<b>TOTAL CARRIED NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
7.2.26		<b>BROUGHT FORWARD</b>				
		(c) Grout into place pipes with diameter greater than 600mm	No.	2		

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>7.3</b>	SABS 1200 HA	<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
7.3.1		Supply and installation complete of Hot dip galvanized and painted I-Beam suspended from concrete soffit to support the overhead travelling crane including splicing and anchoring. Size: 406x178x67 beam.	t	2.50		
<b>7.4</b>	PB	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	PB 8.2.1	Brickwork				
7.4.1		(a) 280 mm cavity walls FBX clay face brick matt brown or equivalent in stretcher bond with keyed joints. (FBX brick external skin only)	m <sup>2</sup>	300		
7.4.2		(b) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	100		
7.4.3		(c) 220 mm general purpose clay brick walls to receive plaster and paint (Internal walls)	m <sup>2</sup>	55		
	PB 8.2.2	Air Bricks (Cementitious)				
7.4.4		(a) External	No	10		
7.4.5		(b) Internal	No	10		
	PB 8.2.4	Window Sills				
7.4.6		(a) External: Fibre cement window sill as wall coping to slope 3° outwards	m	20		
	PB 8.2.6	Plasterwork				
7.4.7		(a) One coat 1:4 cement plaster	m <sup>2</sup>	400		
<b>TOTAL CARRIED NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.8	Paving				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

7.4.8		(a) 200x100x80mm Corolock charcoal S-A (or equivalent) class 35 concrete paving bricks laid in Herringbone pattern	m <sup>2</sup>	150		
	PB 8.2.9	Waterproofing				
7.4.9		(a) Damp-proof course in walls	m	100		
7.4.10		(b) Damp-proof membrane under floors	m <sup>2</sup>	180		
7.4.11		(c) Damp-proof course under window sills	m	15		
7.4.12		3 ply "malthoid" supported over galvanized cavity tray placed over full width (280mm) of cavity walls below concrete roof complete	m	90		
	PB 8.2.14	Gutters and downpipes				
7.4.13		(a) Supply and install (cast into concrete roof) 100mm cast iron Type 3550 fullbores. Install to manufacturer's specification.	No.	4		
7.4.14		(b) Supply and install dia. 90mm welded HDPE downpipes complete with supports. Extend downpipes to outside of building through brickwork and terminate.	m	25		
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
7.4.15		(a) Provisional Sum for Doors	Sum	1	R 125,000.00	
7.4.16		Contractor's overheads and profit on item 7.4.15	%	R125,000		
<b>TOTAL CARRIED NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.18	Metal Work				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

7.4.17		(a) Provisional Sum for Windows and Louvres	Sum	1	R100,000.00	
7.4.18		Contractor's overheads and profit on item 7.4.17	%	R100,000		
	PB 8.2.20	Painting				
7.4.19		(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.	m <sup>2</sup>	400		
	PB 8.2.22	Miscellaneous				
7.4.20		Supply and install 75mm thick reinforced lintels	m	45		
7.4.21		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	8		
7.4.22		Supply and install 30m fire hose reel complete including pressure gauge.	No.	3		
7.4.23		Fire Signage	Prov Sum	1	R10,000.00	
7.4.24		Contractor's overheads and profit on item 7.4.23	%	R10,000.00		
7.4.25		Building signage	Prov Sum	1	R6,250.00	
7.4.26		Contractor's overheads and profit on item 8.4.25	%	R6,250.00		
7.4.27		Provisional sum for small power and lighting	Prov Sum	1	R137,500.00	
7.4.28		Contractor's overheads and profit on item 7.4.27	%	R137,500.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b><u>SCHEDULE 8: Chlorine Contact Channel and Pump Stations</u></b>				

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Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.1	SABS 1200 D	<b><u>SECTION: EARTHWORKS</u></b>				
	8.3.3	Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling to form embankment later (compacted to 98% MOD AASHTO):				
8.1.1		(1) Structure foundations	m <sup>3</sup>	9500		
		(b) Extra-over for				
8.1.2		(1) hard rock excavation	m <sup>3</sup>	4000		
	8.3.4	Importing of materials				
		(a) Extra-over for importation of materials from commercial sources (sourced within 400km from site)				
8.1.3		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	150		
8.1.4		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	2400		
8.1.5		(3) G7 material compacted to 98% MOD-AASHTO in 300mm layers	m <sup>3</sup>	300		
8.1.6	8.3.5	Extra excavation in all materials to provide working space around structure	m <sup>2</sup>			
	8.3.9	Extra-over for backfill or fill against structures using:				
8.1.7		(a) 2% Soil cement	m <sup>3</sup>	150		
8.1.8		(b) 5% Soil cement	m <sup>3</sup>	150		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				

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Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>8.2</b>	<b>SABS 1200 G</b>	<b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
8.2.1		(1) Sides of beams and suspended slabs	m <sup>2</sup>	70		
8.2.2		(2) Columns	m <sup>2</sup>	280		
8.2.3		(3) Sides of surfacebeds	m <sup>2</sup>	60		
8.2.4		(4) Walls	m <sup>2</sup>	3000		
		(b) Horizontal				
8.2.5		(1) Soffits of suspended slabs and concrete roofs	m <sup>2</sup>	1100		
8.2.6		(2) Soffits of beams	m <sup>2</sup>	80		
		(c) Sloped				
8.2.7		(1) Gantry Crane Corbels	m <sup>2</sup>	20		
8.2.8		(2) Stairs	m <sup>2</sup>	30		
	8.2.5	Narrow Widths (up to 250 mm wide)				
8.2.9		(a) Smooth	m	180		
8.2.10		(b) 125mm x 125mm chamfer	m	60		
	8.2.6	Box out holes/form voids				
		(a) Small, circular, of diameter up to and including 0,35 m				
		Over and up to				
8.2.11		(1) 0 m 0,5 m deep	No.	10		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.2.12		(b) Large, circular, of diameter up to and including 0,5 m  Over and up to (1) 0 m 0,5 m deep	No.	10		
8.2.13		(c) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>  Over and up to (1) 0 m 0,8 m deep	No.	10		
	8.3	<b>SCHEDULED REINFORCEMENT ITEMS</b>				
	8.3.1	<b>Steel Bars</b>				
8.2.14		(1) Mild steel reinforcement	t	1.5		
8.2.15		(2) High-tensile reinforcement 32 mm dia. Basic price	t	150		
		Extra over for the following diameter:				
8.2.16		(a) 10 mm	t	25		
8.2.17		(b) 12 mm	t	25		
8.2.18		(c) 16 mm	t	25		
8.2.19		(d) 20 mm	t	25		
8.2.20		(e) 25 mm	t	25		
8.2.21		(f) Extra over for mesh reinforcing to floors	t	25		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
	8.4	<b>BROUGHT FORWARD</b>  SCHEDULED CONCRETE ITEMS				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

	8.4.2	Blinding layer				
8.2.22		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	1200		
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
8.2.23		(i) Screed	m <sup>3</sup>	20		
8.2.24		(ii) Benching	m <sup>3</sup>	30		
		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
8.2.25		(i) Beams	m <sup>3</sup>	20		
8.2.26		(ii) Columns	m <sup>3</sup>	40		
8.2.27		(iii) Floors	m <sup>3</sup>	380		
8.2.28		(iv) Roofs and suspended slabs	m <sup>3</sup>	300		
8.2.29		(v) Plinths	m <sup>3</sup>	18		
8.2.30		(vi) Stairs	m <sup>3</sup>	10		
8.2.31		(vii) Walls	m <sup>3</sup>	410		
8.2.32		Extra over items 8.2.25 - 8.2.31 For adding 5 kg/m <sup>3</sup> of Xypex C500 NF Xypex or equivalent the concrete mixture	m <sup>3</sup>	600		
	8.4.4	Unformed surface finishes				
8.2.33		(a) Wood-floated finish	m <sup>2</sup>	300		
8.2.34		(b) Steel-floated finish	m <sup>2</sup>	1000		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
	8.5	<b>BROUGHT FORWARD</b>  JOINTS				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.2.35		(a) Supply and install saw cut joints complete	m	160		
8.2.36		(b) Supply and install 20mm expansion joints between columns complete with bond breaking joint filler and sealant	m	70		
8.2.37		(c) Expansion joints in brickwork: Joints from 10mm joint filler with hoopiron bands every 4th brick course protruding through joint filler. Hoopiron bands built in minimum 300mm to either side of joint. Seal joints with polyethylene joint sealer	m	150		
8.2.38		(d) Supply and install Construction joints in all walls with 250mm PVC dumbbell waterstop with centre bulbs centrally placed at construction joints	m	140		
8.2.39		(e) Supply and install Construction joints in all floors with 250mm PVC watertight expansion joint externally placed at construction joints	m	250		
8.2.40		(f) Bearing surface joint on 450mm walls with 2 layers of "malthoid" or equivalent	m	265		
8.2.41		(g) Supply and install 20mm Expansion joints in all floors including rearguard s-type waterstop, joint filler and joint sealant	m	275		
8.2.42		(h) Supply and install 20cm wide and 2mm thick watertight isolation joint in walls and floors as per suppliers specifications with adhesives compatible with drinking water	m	250		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
8.2.43		<b>BROUGHT FORWARD</b> (i) Supply and install 200mm Construction joints with dumbbell waterstop without	m	500		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

		centre bulbs at construction joints				
8.2.44		(j) Supply and install self adhesive waterstop	m	440		
8.2.45		(k) Supply and install crystalline waterproofing agent as per suppliers specifications	m <sup>2</sup>	80		
	8.7	GROUTING IN ALL THICKNESS WALLS				
8.2.46		(a) Grout into place pipes with diameter less than 300mm	No.	12		
8.2.47		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	8		
8.2.48		(c) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	4		
8.2.49		(d) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	4		
	PSG 3.13	Testing for water tightness complete with temporary closing of all boxouts, pipes and openings				
8.2.50		(a) Chlorine Contant Channel	Sum	1		
8.3	SABS 1200 HA	<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>				
		SS316 Handrails assembly complete				
8.3.1		(a) Shaped ends	No.	10		
8.3.2		(b) Sloping handrails on stairs	m	50		
8.3.3		(c) Horizontal handrails	m	200		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.3.4		Supply and install recta-grid (or equal approved) galvanised mild steel flooring 40x4.5 mm bearer bars and laid on angle irons bolted to concrete wall with M10 anchor bolts including all square cutting and set in position and banded around all edges. Price shall include cutting to fit for each application.	m <sup>2</sup>	50		
8.3.5		Supply and install hot dip galvanized 90 mm high kickplates complete	m	50		
<b>8.4</b>	<b>SABS 1200LD</b>	<b><u>SECTION : SEWERS</u></b>				
8.4.1	8.2.1	Supply and install 300x300mm subsoil drainage system complete with centered 110mm diameter perforated flexible drainage pipe surrounded with 19mm nominal diameter stone and enclosed with geofabric blanket or equivalent	m	400		
	8.2.3	Manholes  Precast Concrete Manhole as per details on SANS 1200LD Drawing LD - 5:  (a) 1250mm Diameter Precast Concrete Manhole (25MPa/19mm concrete) complete with joint sealer between rings, and 2 layers of 150mm wide x 0.3mm thick LDPE self adhesive tape between joints on prime coat applied in accordance with manufacturers specifications, and type 4A cover and frame, and step irons, for the following depths:				
8.4.2		0 - 3m deep	No.	2		
8.4.3		3 - 5m deep	No.	4		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
8.5	PB	<b>BROUGHT FORWARD</b>  <b><u>BUILDING WORK SPECIFICATIONS</u></b>				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

	PB 8.2	SCHEDULED ITEMS				
	PB 8.2.1	Brickwork				
8.5.1		(a) 280mm cavity wall, inner wall built with Claytile clay brick and outer wall built with FBX clay face brick (in stack bond with keyed joints). Inner wall to receive plaster and paint	m <sup>2</sup>	220		
8.5.2		(b) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	30		
	PB 8.2.2	Air Bricks				
8.5.3		(a) External	No	8		
8.5.4		(b) Internal	No	8		
	PB 8.2.6	Plasterwork				
8.5.5		(a) One coat 1:4 cement plaster	m <sup>2</sup>	220		
	PB 8.2.7	Floor screeds and finishes				
8.5.6		(a) Normal cement screed	m <sup>2</sup>	200		
	PB 8.2.9	Waterproofing				
8.5.7		(a) Damp-proof course in walls	m	150		
8.5.8		(b) Damp-proof membrane under floors	m <sup>2</sup>	1200		
8.5.9		(c) Damp-proof course under window sills	m	60		
	PB 8.2.14	Gutters and downpipes				
8.5.10		(a) Supply and install (cast into concrete roof) 100mm cast iron Type 3550 fullbores. Install to manufacturer's specification.	No.	8		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.5.11		(b) Supply and install dia. 90mm welded HDPE downpipes complete with supports. Extend downpipes to outside of building through brickwork and terminate.	m	40		
	PB 8.2.16	Ceiling and roof Insulation				
8.5.12		(a) R3. Thermal insulation 02 - RC roof structure: The drainage layer above the waterproofing shall be DipSystems Graphite-Enhanced Insulation, Drainage and Waterproofing Protection Board, Density 18-36kg/m <sup>3</sup> , 1260x875x85mm. Woven filter fabric on top of drainage board to be PT 115 Polypropylene with min 50mm deep approved stone ballast on top. All installed in accordance to the manufacturer's instructions. Or equivalent.	m <sup>2</sup>	180		
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
8.5.13		(a) Provisional Sum for Doors	Sum	1	R125,000.00	
8.5.14		Contractor's overheads and profit on item 8.5.13	%	R125,000		
8.5.15		(b) Supply and install insulated Aluminium roller shutter door electrically operated with manual crank & gearbox operation override to be painted. 2.5m high and 3.0 wide.	No.	1		
8.5.16		(c) Meranti skirting 90mm x 18mm	m	200		

**TOTAL CARRIED TO NEXT PAGE**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
	PB 8.2.18	<b>BROUGHT FORWARD</b> Metal Work				

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Witness 1

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Witness 2

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Employer

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Witness 1

\_\_\_\_\_  
Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

8.5.17		(a) Provisional Sum for Windows and Louvres	Sum	1	R100,000.00	
8.5.18		Contractor's overheads and profit on item 8.5.17	%	R100,000		
	PB 8.2.19	Resilient Floor finishes				
8.5.19		(a) F3. Epoxy self-smoothing system: Two-part self-smoothing and broadcasting epoxy system. Applied approx. 2mm thick as per manufacturer's instructions in colour as per sample approved by architect and with gloss finish. (Sikafloor 263SL ZA or equivalent). Joints as recommended by manufacturer.	m <sup>2</sup>	200		
	PB 8.2.20	Painting				
8.5.20		(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-13.1	m <sup>2</sup>	220		
	PB 8.2.22	Miscellaneous				
8.5.21		(a) Water supply pipework and plumbing for all sanitary ware for 2 standpipes, including connection to nearest potable water supply line, 50m away.	Sum	1		
8.5.22		Precast Concrete Lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	30		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
8.5.23		Lintels for facebrick walls: Galvanised steel 100x100mm angle shelf as required over openings, allow minimum 250mm bearing to each side and built in fixed to structure behind as per standard detail.	m	30		
8.5.24		19mm granite stone placed on concrete rooftops	m <sup>3</sup>	15		
8.5.25		Supply and install torch applied 2 layer bitumen membranes for waterproofing of concrete roofs	m <sup>2</sup>	200		
8.5.26		Huber venting chimney BKA 1 or equivalent with insect filter and vapour hood made with SS316 cast in to concrete roof	No.	30		
8.5.27		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	10		
8.5.28		Supply and install 30m fire hose reel complete including pressure gauge.	No.	4		
8.5.29		Fire Signage	Prov Sum	1	R 25,000.00	
8.5.30		Contractor's overheads and profit on item 8.5.29	%	R 25,000.00		
8.5.31		Building signage	Prov Sum	1	R25,000.00	
8.5.32		Contractor's overheads and profit on item 8.5.31	%	R25,000.00		
8.5.33		Provisional sum for small power and lighting	Prov Sum	1	R175,000.00	
8.5.34		Contractor's overheads and profit on item 8.5.33	%	R175,000.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
9.1	SABS 1200 D	<b><u>SCHEDULE 9: BACKWASH RECYCLE PUMP STATION</u></b>				
		<b><u>SECTION: EARTHWORKS</u></b>				
		8.3.3 Restricted excavation				
		(a) Excavate in all materials and use for backfill - including temporary stockpiling to form embankment later (compacted to 98% MOD AASHTO):				
		(1) Structure foundations	m <sup>3</sup>	1100		
		(b) Extra-over for				
		(1) hard rock excavation	m <sup>3</sup>	500		
		8.3.4 Importing of materials				
		(a) Extra-over for importation of materials from commercial sources (sourced within 400km from site)				
		(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m <sup>3</sup>	40		
		(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m <sup>3</sup>	220		
		(3) G7 material compacted to 98% MOD-AASHTO in 300mm layers	m <sup>3</sup>	80		
		8.3.5 Extra excavation in all materials to provide working space around structure	m <sup>2</sup>	250		
		8.3.9 - Extra-over for backfill or fill against structures using:				
9.1.7		(a) 2% Soil cement	m <sup>3</sup>	40		
9.1.8		(b) 5% Soil cement	m <sup>3</sup>	40		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
<b>9.2</b>	SABS 1200 G	<b>BROUGHT FORWARD</b>  <b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
9.2.1		(1) Sides of beams and suspended slabs	m <sup>2</sup>	350		
9.2.2		(2) Columns	m <sup>2</sup>	80		
9.2.3		(3) Sides of surfacebeds	m <sup>2</sup>	55		
9.2.4		(4) Walls	m <sup>2</sup>	500		
		(b) Horizontal				
9.2.5		(1) Soffits of suspended slabs and concrete roofs	m <sup>2</sup>	180		
9.2.6		(2) Soffits of beams	m <sup>2</sup>	80		
		(c) Sloped				
9.2.7		(1) Gantry Crane Corbels	m <sup>2</sup>	5		
9.2.8		(2) Stairs	m <sup>2</sup>	30		
	8.2.5	Narrow Widths (up to 250 mm wide)				
9.2.9		(a) Smooth	m	50		
9.2.10		(b) 125mm x 125mm chamfer	m	10		
	8.2.6	Box out holes/form voids				
		(a) Small, circular, of diameter up to and including 0,35 m				
		Over and up to				
9.2.11		(1) 0 m 0,5 m deep	No.	6		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

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Tenderer

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Employer

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
9.2.12		(b) Large, circular, of diameter up to and including 0,5 m  Over and up to (1) 0 m 0,5 m deep	No.	5		
9.2.13		(c) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>  Over and up to (1) 0 m 0,8 m deep	No.	5		
	8.3	<b>SCHEDULED REINFORCEMENT ITEMS</b>				
	8.3.1	<b>Steel Bars</b>				
9.2.14		(1) Mild steel reinforcement	t	0.4		
9.2.15		(2) High-tensile reinforcement 32 mm dia. Basic price	t	42		
		Extra over for the following diameter:				
9.2.16		(a) 10 mm	t	7		
9.2.17		(b) 12 mm	t	7		
9.2.18		(c) 16 mm	t	7		
9.2.19		(d) 20 mm	t	7		
9.2.20		(e) 25 mm	t	7		
9.2.21		(f) Extra over for mesh reinforcing to floors	t	7		
	8.4	<b>SCHEDULED CONCRETE ITEMS</b>				
	8.4.2	<b>Blinding layer</b>				
9.2.22		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	180		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
9.2.23		(i) Screed	m <sup>3</sup>	5		
9.2.24		(ii) Benching	m <sup>3</sup>	10		
		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
9.2.25		(i) Beams	m <sup>3</sup>	35		
9.2.26		(ii) Columns	m <sup>3</sup>	12		
9.2.27		(iii) Floors	m <sup>3</sup>	65		
9.2.28		(iv) Roofs and suspended slabs	m <sup>3</sup>	45		
9.2.29		(v) Plinths	m <sup>3</sup>	10		
9.2.30		(vi) Stairs	m <sup>3</sup>	10		
9.2.31		(vii) Walls	m <sup>3</sup>	90		
9.2.32		Extra over items 9.2.25 - 9.2.31 For adding 5 kg/m <sup>3</sup> of Xypex C500 NF Xypex or equivalent to the concrete mixture	m <sup>3</sup>	250		
	8.4.4	Unformed surface finishes				
9.2.33		(a) Wood-floated finish	m <sup>2</sup>	40		
9.2.34		(b) Steel-floated finish	m <sup>2</sup>	300		
	8.5	JOINTS				
9.2.35		(a) Supply and install saw cut joints complete	m	60		
9.2.36		(b) Supply and install 20mm expansion joints between columns complete with bond breaking joint filler and sealant	m	10		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
9.2.37		(c) Expansion joints in brickwork: Joints from 10mm joint filler with hoopiron bands every 4th brick course protruding through joint filler. Hoopiron bands built in minimum 300mm to either side of joint. Seal joints with polyethylene joint sealer	m	60		
9.2.38		(d) Supply and install Construction joints in all walls with 250mm PVC dumbbell waterstop with centre bulbs centrally placed at construction joints	m	50		
9.2.39		(e) Supply and install Construction joints in all floors with 250mm PVC watertight expansion joint externally placed at construction joints	m	50		
9.2.40		(f) Bearing surface joint on 450mm walls with 2 layers of "malthoid" or equivalent	m	10		
9.2.41		(g) Supply and install 20mm Expansion joints in all floors including rearguard s-type waterstop, joint filler and joint sealant	m	30		
9.2.42		(h) Supply and install 20cm wide and 2mm thick watertight isolation joint in walls and floors as per suppliers specifications with adhesives compatible with drinking water	m	50		
9.2.43		(i) Supply and install 200mm Construction joints with dumbbell waterstop without centre bulbs at construction joints	m	50		
9.2.44		(j) Supply and install self adhesive waterstop	m	50		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
9.2.45	8.7	<b>BROUGHT FORWARD</b>  (k) Supply and install crystalline waterproofing agent as per suppliers specifications	m²	10		
9.2.46		GROUTING IN ALL THICKNESS WALLS (a) Grout into place pipes with diameter less than 300mm	No.	5		
9.2.47		(b) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	5		
9.2.48		(c) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	5		
9.2.49		(d) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	1		
	PSG 3.13	Testing for water tightness complete with temporary closing of all boxouts, pipes and openings				
9.2.50		(a) Backwash Recycle Pump Station Sump	Sum	1		
9.3	SABS 1200 HA	<b><u>SECTION : STRUCTURAL STEELWORK (SUNDRY ITEMS)</u></b>  SS316 Handrails assembly complete				
9.3.1		(a) Shaped ends	No.	10		
9.3.2		(b) Sloping handrails on stairs	m	30		
9.3.3		(c) Horizontal handrails	m	10		
9.3.4		Supply and install recta-grid (or equal approved) galvanised mild steel flooring 40x4.5 mm bearer bars and laid on angle irons bolted to concrete wall with M10 anchor bolts including all square cutting and set in position and banded around all edges. Price shall include cutting to fit for each application.	m²	20		
TOTAL CARRIED TO NEXT PAGE						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
9.3.5		<b>BROUGHT FORWARD</b>  Supply and install hot dip galvanized 90 mm high kickplates complete	m	20		
<b>9.4</b>	SABS 1200 LD	<b><u>SECTION : SEWERS</u></b>				
9.4.1	8.2.1	Supply and install 300x300mm subsoil drainage system complete with centered 110mm diameter perforated flexible drainage pipe surrounded with 19mm nominal diameter stone and enclosed with geofabric blanket or equivalent	m	100		
	8.2.3	Manholes  Precast Concrete Manhole as per details on SANS 1200LD Drawing LD - 5:  (a) 1250mm Diameter Precast Concrete Manhole (25MPa/19mm concrete) complete with joint sealer between rings, and 2 layers of 150mm wide x 0.3mm thick LDPE self adhesive tape between joints on prime coat applied in accordance with manufacturers specifications, and type 4A cover and frame, and step irons, for the following depths:				
9.4.2		0 - 3m deep	No.	1		
9.4.3		3 - 5m deep	No.	1		
<b>9.5</b>	PB	<b><u>BUILDING WORK SPECIFICATIONS</u></b>				
	PB 8.2	SCHEDULED ITEMS				
	PB 8.2.1	Brickwork				
9.5.1		(a) 280mm cavity wall, inner wall built with Claytile clay brick and outer wall built with FBX clay face brick (in stack bond with keyed joints). Inner wall to receive plaster and paint	m <sup>2</sup>	220		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
9.5.2		(b) 280 mm walls below ground foundation/plinth walls filled with 20MPa concrete	m <sup>2</sup>	30		
	PB 8.2.2	Air Bricks				
9.5.3		(a) External	No	8		
9.5.4		(b) Internal	No	8		
	PB 8.2.6	Plasterwork				
9.5.5		(a) One coat 1:4 cement plaster	m <sup>2</sup>	220		
	PB 8.2.7	Floor screeds and finishes				
9.5.6		(a) Normal cement screed	m <sup>2</sup>	200		
	PB 8.2.9	Waterproofing				
9.5.7		(a) Damp-proof course in walls	m	150		
9.5.8		(b) Damp-proof membrane under floors	m <sup>2</sup>	1200		
9.5.9		(c) Damp-proof course under window sills	m	60		
	PB 8.2.14	Gutters and downpipes				
9.5.10		(a) Supply and install (cast into concrete roof) 100mm cast iron Type 3550 fullbores. Install to manufacturer's specification.	No.	8		
9.5.11		(b) Supply and install dia. 90mm welded HDPE downpipes complete with supports. Extend downpipes to outside of building through brickwork and terminate.	m	40		
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Witness 2

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Employer

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	PB 8.2.17	Joinery including stainless steel frames, ironmongery and installation thereof				
9.5.12		(a) Provisional Sum for Doors	Sum	1	R100,000.00	
9.5.13		Contractor's overheads and profit on item 9.5.12	%	R100,000		
9.5.14		(b) Meranti skirting 90mm x 18mm	m	80		
	PB 8.2.18	Metal Work				
9.5.15		(a) Provisional Sum for Windows and Louvres	Sum	1	R37,500.00	
9.5.16		Contractor's overheads and profit on item 9.5.15	%	R37,500		
	PB 8.2.19	Resilient Floor finishes				
9.5.17		(a) F3. Epoxy self-smoothing system: Two-part self-smoothing and broadcasting epoxy system. Applied approx. 2mm thick as per manufacturer's instructions in colour as per sample approved by architect and with gloss finish. (Sikafloor 263SL ZA or equivalent). Joints as recommended by manufacturer.	m <sup>2</sup>	130		
	PB 8.2.20	Painting				
9.5.18		(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 <sup>2</sup>	220		
	PB 8.2.22	Miscellaneous				
9.5.19		(a) Water supply pipework and plumbing for all sanitary ware for 2 standpipes, including connection to nearest potable water supply line, 50m away.	Sum			
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

200

Employer

Witness 1

Witness 2

C2.2: Bill of Quantities



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
9.5.20		Precast Concrete Lintels over door frames and other brickwork openings, allow minimum 150mm bearing each side	m	10		
9.5.21		Lintels for facebrick walls: Galvanised steel 100x100mm angle shelf as required over openings, allow minimum 250mm bearing to each side and built in fixed to structure behind as per standard detail.	m	10		
9.5.22		19mm granite stone placed on concrete rooftops	m <sup>3</sup>	12		
9.5.23		Supply and install torch applied 2 layer bitumen membranes for waterproofing of concrete roofs	m <sup>2</sup>	180		
9.5.24		Huber venting chimney BKA 1 or equivalent with insect filter and vapour hood made with SS316 cast in to concrete roof	No.	4		
9.5.25		Supply and install 5kg CO <sub>2</sub> fire extinguishers complete in fire closet with signage and all accessories	No.	6		
9.5.26		Supply and install 30m fire hose reel complete including pressure gauge.	No.	2		
9.5.27		Fire Signage	Prov Sum	1	R6,250.00	
9.5.28		Contractor's overheads and profit on item 9.5.27	%	R6250		
9.5.29		Building signage	Prov Sum	1	R6,250.00	
9.5.30		Contractor's overheads and profit on item 9.5.29	%	R6,250		
9.5.31		Provisional sum for small power and lighting	Prov Sum	1	R50,000.00	
9.5.32		Contractor's overheads and profit on item 9.5.31	%	R50,000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



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Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c		
10.1	SABS 1200 D	<b><u>SCHEDULE 10: FLOW METER CHAMBERS</u></b>						
		<b><u>SECTION: EARTHWORKS</u></b>						
		8.3.3	Restricted excavation					
		(a)	Excavate in all materials and use for backfill - including temporary stockpiling to form embankment later (compacted to 98% MOD AASHTO):					
		10.1.1	(1) Structure foundations	m³	270			
		(b)	Extra-over for					
		10.1.2	(1) hard rock excavation	m³	100			
		8.3.4	Importing of materials					
		(a)	Extra-over for importation of materials from commercial sources (sourced within 400km from site)					
		10.1.3	(1) Sand backfill compacted to 100% MOD-AASHTO in 150mm layers	m³	10			
		10.1.4	(2) G5 material compacted to 98% MOD-AASHTO in 200mm layers	m³	100			
		10.1.5	8.3.5	Extra excavation in all materials to provide working space around structure	m²	75		
		8.3.9	Extra-over for backfill or fill against structures using:					
		10.1.6	(a) 2% Soil cement	m³	10			
		10.1.7	(b) 5% Soil cement	m³	10			
TOTAL CARRIED TO NEXT PAGE								

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
<b>10.2</b>	<b>SABS 1200 G</b>	<b>BROUGHT FORWARD</b>				
		<b><u>SECTION : CONCRETE</u></b>				
	8.2	SCHEDULED FORMWORK ITEMS				
	8.2.2	Smooth				
		(a) Vertical				
10.2.1		(1) Sides of surfacebeds	m <sup>2</sup>	24		
10.2.2		(2) Walls	m <sup>2</sup>	400		
	8.2.5	Narrow Widths (up to 250 mm wide)				
10.2.3		(a) Smooth	m	20		
	8.2.6	Box out holes/form voids				
		(a) Large, other than circular, of area over 0,1 m <sup>2</sup> and up to and including 2 m <sup>2</sup>				
		Over and up to				
10.2.4		(1) 0 m 0,4 m deep	No.	6		
	8.3	SCHEDULED REINFORCEMENT ITEMS				
	8.3.1	Steel Bars				
10.2.5		(1) Mild steel reinforcement	t	0.1		
10.2.6		(2) High-tensile reinforcement 32 mm dia. Basic price	t	18		
		Extra over for the following diameter:				
10.2.7		(a) 10 mm	t	3		
10.2.8		(b) 12 mm	t	3		
10.2.9		(c) 16 mm	t	3		
10.2.10		(d) 20 mm	t	3		
10.2.11		(e) 25 mm	t	3		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
10.2.12		<b>BROUGHT FORWARD</b>				
		(f) Extra over for mesh reinforcing to floors	t	3		
	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.2	Blinding layer				
10.2.13		(a) 50 mm minimum thickness grade 20Mpa/19mm concrete under floors	m <sup>2</sup>	90		
	8.4.3	Strength concrete				
		(a) Grade 20Mpa/19mm concrete for:				
10.2.14		(i) Screed	m <sup>3</sup>	5		
10.2.15		(ii) Benching	m <sup>3</sup>	5		
		(b) Grade 35Mpa/19mm concrete, all raw materials sourced within 400km from site:				
10.2.16		(i) Floors	m <sup>3</sup>	30		
10.2.17		(ii) Walls	m <sup>3</sup>	60		
	8.4.4	Unformed surface finishes				
10.2.18		(a) Wood-floated finish	m <sup>2</sup>	10		
10.2.19		(b) Steel-floated finish	m <sup>2</sup>	90		
	8.5	JOINTS				
10.2.20		(a) Supply and install saw cut joints complete	m	15		
10.2.21		(b) Supply and install 20mm Expansion joints in all floors including rearguard s-type waterstop, joint filler and joint sealant	m	25		
10.2.22		(c) Supply and install 200mm Construction joints with dumbbell waterstop without centre bulbs at construction joints	m	25		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
	8.7	GROUTING IN ALL THICKNESS WALLS				
10.2.23		(a) Grout into place pipes with diameter greater than 300mm and equal to or less than 600mm	No.	2		
10.2.24		(b) Grout into place pipes with diameter greater than 600mm and equal to or less than 800mm	No.	2		
10.2.25		(c) Grout into place pipes with diameter greater than 800mm and equal to or less than 1100mm	No.	2		
<b>10.3</b>	SABS 1200 GE	<b><u>SECTION : PRECAST CONCRETE</u></b>				
	8.2	SCHEDULED PRECAST UNIT ITEMS				
10.3.1	8.2.1	Supply and install complete precast concrete (35MPa) units with dimensions: 3m x 1m x 0,25m thick including galvanised lifting lugs. (Reinforcement measured elsewhere)	No.	30		
	PB 8.2.22	Miscellaneous				
10.3.2		Supply and install cast into concrete 150mm wide, 185 long corrosion resistant stainless steel 316 step irons fully encapsulated with yellow polypropylene and slip resistant.	No.	30		
TOTAL CARRIED FORWARD TO SUMMARY						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



Project No: 150362/3

**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

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*Witness 2*



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
<b>11</b>	PSL & Standard specification for mechanical works - D & Standard specification for steel pipe, fittings and specials - E	<b><u>SCHEDULE 11: PIPE SPECIALS</u></b>  <b><u>SECTION : MEDIUM PRESSURE PIPELINES</u></b>				
	8.2.1	Supply, lay, joint, bed Class C and test complete with couplings the following pipes cut to length to make up specials				
11.1		(a) dia. 80 mm SS316	m	10		
11.2		(b) dia. 100 mm SS316	m	10		
11.3		(c) dia. 150 mm SS316	m	18		
11.4		(d) dia. 200 mm SS316	m	10		
11.5		(e) dia. 300 mm SS316	m	12		
11.6		(f) dia. 400 mm SS316	m	10		
11.7		(g) dia. 500 mm SS316	m	4		
11.8		(h) dia. 600 mm SS316	m	8		
11.9		(i) dia. 800 mm SS316	m	22		
11.10		(j) dia. 900 mm SS316	m	6		
11.11		(k) dia. 1000 mm SS316	m	12		
	8.2.2	Supply, lay, joint, bed Class C and test complete the following specials:				
		(a) Flanges, welded onto pipes				
11.12		(i) dia. 80 mm SS316 (PN10)	No.	10		
11.13		(ii) dia. 100 mm SS316 (PN10)	No.	10		
11.14		(iii) dia. 150 mm SS316 (PN10)	No.	18		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

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*Witness 1*

*Witness 2*

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*Witness 1*

*Witness 2*



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
11.15		(iv) dia. 200 mm SS316 (PN10)	No.	10		
11.16		(v) dia. 300 mm SS316 (PN10)	No.	12		
11.17		(vi) dia. 400 mm SS316 (PN10)	No.	10		
11.18		(vii) dia. 500 mm SS316 (PN10)	No.	4		
11.19		(viii) dia. 600 mm SS316 (PN10)	No.	8		
11.20		(ix) dia. 800 mm SS316 (PN10)	No.	22		
11.21		(x) dia. 900 mm SS316 (PN10)	No.	6		
11.22		(xii) dia. 1000 mm SS316 (PN10)	No.	12		
		(b) Flange Adaptors				
11.23		(i) dia. 80 mm SS316 (PN10)	No.	4		
11.24		(ii) dia. 100 mm SS316 (PN10)	No.	4		
11.25		(iii) dia. 150 mm SS316 (PN10)	No.	12		
11.26		(iv) dia. 300 mm SS316 (PN10)	No.	6		
		(d) Puddle flanges, welded onto pipes				
11.27		(i) dia. 80 mm SS316	No.	5		
11.28		(ii) dia. 100 mm SS316	No.	5		
11.29		(iii) dia. 150 mm SS316	No.	9		
11.30		(iv) dia. 200 mm SS316	No.	5		
11.31		(v) dia. 300 mm SS316	No.	6		
11.32		(vi) dia. 400 mm SS316	No.	5		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
11.33		(vii) dia. 500 mm SS316	No.	2		
11.34		(viii) dia. 600 mm SS316	No.	4		
11.35		(ix) dia. 800 mm SS316	No.	11		
11.36		(x) dia. 900 mm SS316	No.	3		
11.37		(xi) dia. 1000 mm SS316	No.	6		
		(e) Blank Flange				
11.38		(i) dia. 100 mm SS316 (PN10)	No.	4		
11.39		(ii) dia. 150 mm SS316 (PN10)	No.	2		
11.40		(iii) dia. 500 mm SS316 (PN10)	No.	2		
11.41		(iv) dia. 600 mm SS316 (PN10)	No.	2		
11.42		(v) dia. 1000 mm SS316 (PN10)	No.	1		
		(f) Welding of pipe specials at joints				
11.43		(i) dia. 80 mm SS316	No.	2		
11.44		(ii) dia. 100 mm SS316	No.	2		
11.45		(iii) dia. 150 mm SS316	No.	2		
11.46		(iv) dia. 200 mm SS316	No.	2		
11.47		(v) dia. 300 mm SS316	No.	2		
11.48		(vi) dia. 400 mm SS316	No.	2		
11.49		(vii) dia. 500 mm SS316	No.	2		
11.50		(viii) dia. 600 mm SS316	No.	2		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
11.51		(ix) dia. 800 mm SS316	No.	2		
11.52		(x) dia. 900 mm SS316	No.	2		
11.53		(xi) dia. 1000 mm SS316	No.	2		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b><u>SCHEDULE 12: HEALTH AND SAFETY</u></b>				
		<b>Allow for all costs and expenses at the various sites in connection with the following:</b>				
12.1		Compliance with the Health and Safety Specification.	Item	1		
12.2		Compliance with the requirements of the Occupational Health and Safety Act, 85 of 1993 and Construction Regulations, 2014.	Item	1		
12.3		Contractor's initial obligation in respect to the Occupational Health and Safety Act and Construction Regulations, including the preparation of a Health & Safety Plan.	Item	1		
12.4		Provision for preparing a Hazard Identification and Risk Assessment (HIRA)	Item	1		
12.5		<b><u>Personal Protective Equipment (PPE)</u></b>				
12.5.1		Safe footwear	Sum	1		
12.5.2		Hard hats	Sum	1		
12.5.3		Reflective vests	Sum	1		
12.5.4		General PPE as required (hearing protection, eye protection)	Sum	1		
12.5.5		Fall protection systems – harness and life line systems for demolitions, formwork teams, and work on roofs and roof slabs). All as per risk assessments by Principle Contractor and Contractors	Sum	1		
12.5.6		Lockable, clean areas to store PPE	Sum	1		
12.5.7		Visitor PPE – hard hats and reflective vests	Sum	1		
12.5.8		Specialised PPE during the commissioning and operation of the new water treatment works	Sum	1		
12.6		<b><u>H&amp;S Induction Training</u></b>				
12.6.1		The Principle Contractor to induct all workers, any Direct contractors, and visitors	Sum	1		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

TOTAL CARRIED TO NEXT PAGE						
Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
12.6.2		A competent induction officer to be designated	Sum	1		
12.6.3		Induction venue (chairs and table) to be available on site	Sum	1		
12.6.4		Induction ID card system to be implemented and enforced on site	Sum	1		
<b>12.7</b>		<b><u>First Aid Management</u></b>				
12.7.1		First aid box, splints and eye wash	Sum	1		
12.7.2		First aider by Principle Contractor as soon as total workforce exceeds 10. One first aider for every group of 50.	Sum	1		
<b>12.8</b>		<b><u>Public Protection</u></b>				
12.8.1		Fencing along existing walkways within the WTW where excavations are located	Sum	1		
12.8.2		Barriers along roadways where excavations are located	Sum	1		
12.8.3		Orange barrier netting secured in position as per the requirements of this H&S specifications document	Sum	1		
12.8.4		Safety signage at all entrances to work zones	Sum	1		
<b>12.9</b>		<b><u>Demolition Operations and Asbestos Work</u></b>				
12.9.1		Asbestos work plan, asbestos PPE, registered asbestos contractor, registered asbestos Inspection Authority, air monitoring, final inspection of the area to declare the site clean and free of asbestos fibres	Sum	1		
<b>12.10</b>		<b><u>Earthworks and Trenching</u></b>				
12.10.1		Battering back excavation sides to a safe angle 1V:2H	Sum	1		
12.10.2		Shoring and bracing where battering back to a safe angle cannot be achieved	Sum	1		
TOTAL CARRIED TO NEXT PAGE						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
12.10.3		Excavation signage	Sum	1		
12.10.4		Daily inspections, including possible inspections by a geo-tech engineer when required	Sum	1		
12.10.5		Management of the bulk excavation, edge protection, plant and access	Sum	1		
12.10.6		Fencing off of all excavations where the public is exposed (public = WTW staff and the like)	Sum	1		
<b>12.11</b>		<b><u>Access Control, Security and Site Hoarding</u></b>				
12.11.1		Access gate(s) – separate access for pedestrians and vehicles	Sum	1		
12.11.2		Chains and locks	Sum	1		
12.11.3		Signage and notices (as per minimum requirements)	Sum	1		
12.11.4		Access to be controlled to all work zones	Sum	1		
12.11.5		General area lighting for safety and security reasons	Sum	1		
<b>12.12</b>		<b><u>Traffic and Pedestrian Management: Roadways and Public Areas adjacent to site within the WTW</u></b>				
12.12.1		Traffic signs and delineators where necessary	Sum	1		
12.12.2		Pedestrian accommodation to be retained as far as possible or alternatives provided	Sum	1		
<b>12.13</b>		<b><u>H&amp;S Officer</u></b>				
12.13.1		Rate for a full-time Main Contractor site safety officer. This person must comply with the requirements of the Construction 2014 (SACPCMP registered)	Sum	1		
12.13.2		Subcontractors' safety officers, part-time – one site visit per week as a minimum	Sum	1		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

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Witness 1

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Witness 2

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Employer

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Witness 1

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**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
12.13.3		H&S administration – files and paperwork	Sum	1		
12.13.4		Consolidated H&S documentation at end of the project including all sub-contractor documentation	Sum	1		
12.13.5		Desk, computer, office, telephone, printer, email and internet access	Sum	1		
12.13.6		Camera and cell phone	Sum	1		
<b>12.14</b>		<b><u>Fire Fighting Equipment</u></b>				
12.14.1		Fire extinguishers as per fire risk assessment by Principle Contractor	Sum	1		
12.14.2		Possible fire risk assessments by Fire Prevention Officer – local fire dept. Allow for two inspections	Sum	1		
12.14.3		Flammable store – ventilated area separate from other stores	Sum	1		
<b>12.15</b>		<b><u>Electrical Compliance</u></b>				
12.15.1		Temporary electrical connection and supply in compliance with SANS 100142	Sum	1		
12.15.2		Temporary electrical boards in compliance with SANS 100142. CoC's and weekly inspections required	Sum	1		
12.15.3		Maintenance and repair	Sum	1		
12.15.4		Temporary lighting for work areas	Sum	1		
12.15.5		Dustless grinding machines for chasing walls	Sum	1		
12.15.6		Existing electrical transformers and kiosks. Detection and location of electrical cables and equipment on and around site	Sum	1		
<b>12.16</b>		<b><u>Temporary Access and Work Platforms</u></b>				
12.16.1		Ladders	Sum	1		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
12.16.2		Scaffolding – including sufficient boards (fully boarded platforms, access ladders, toe boards, bracing, ties, signage, etc. All in compliance with SANS 10085-2004	Sum	1		
12.16.3		Trained scaffold inspector and erector(s)	Sum	1		
12.16.4		Safe access to elevated decks and floors and roof by means of scaffold access towers not ladders – based on number of persons to access these areas	Sum	1		
<b>12.17</b>		<b><u>Welfare Facilities</u></b>				
12.17.1		Toilets (1 toilet per 30 workers). Separate toilets for women	Sum	1		
12.17.2		Soap	Sum	1		
12.17.3		Change area separate from eating areas. Tables and benches sufficient number for personnel, including Subcontractors'	Sum	1		
12.17.4		Drinking water	Sum	1		
12.17.5		Toilet paper	Sum	1		
12.17.6		Lockable containers for PPE	Sum	1		
12.17.7		Electrical supply and plug points for cooking and hot water	Sum	1		
12.17.8		Lights	Sum	1		
12.17.9		Showers (2 no.) minimum. Also required by the asbestos team	Sum	1		
<b>12.18</b>		<b><u>Guarding of Exposed Elevated Edges and Openings as well as the Excavation Edges</u></b>				
12.18.1		Edge protection must be in the form of a solid barrier fitted at 500mm and 1000mm above each edge where there is a drop of more 1m and must be in accordance with a competent temporary works designer's specifications	Sum	1		
12.18.2		Walkways along the edge of excavations must be fitted with solid hand rails	Sum	1		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b>BROUGHT FORWARD</b>				
12.18.3		Danger tape is prohibited as a form of edge protection	Sum	1		
<b>12.19</b>		<b><u>Medical Assessment of Personnel</u></b>				
12.19.1		All construction personnel must be certified medically fit by a registered occupational health practitioner	Sum	1		
12.19.2		Hearing tests to form part of the medical assessments and must be carried out at least every two years or more often depending on previous audiogram	Sum	1		
12.19.3		Hepatitis a, b and tetanus vaccinations for all construction personnel and subcontractors	Sum	1		
<b>12.20</b>		<b><u>Personnel Fall Prevention System</u></b>				
12.20.1		Required during demolition, roof structures, roof coverings, and other areas where barriers cannot be fitted	Sum	1		
12.20.2		Life line systems must be designed and fitted by a certified rope access contractor	Sum	1		
12.20.3		Daily inspections to be carried out	Sum	1		
12.20.4		Life line system relocation to be carried out by the certified rope access contractor	Sum	1		
<b>12.21</b>		<b><u>Scaffolding</u></b>				
12.21.1		All necessary scaffold personnel to be appointed – Principle Contractor or a designated, competent subbie	Sum	1		
12.21.2		100% compliance with the Scaffold Code 10085-2004	Sum	1		
<b>12.22</b>		<b><u>Supervision</u></b>				
12.22.1		Principle Contractor to appoint a full-time construction manager designated to this project	Sum	1		
12.22.2		Assistant managers to be appointed	Sum	1		
<b>TOTAL CARRIED TO NEXT PAGE</b>						

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
12.22.3		<b>BROUGHT FORWARD</b> Section and activity supervisors to be appointed for demolitions, earthworks, building work, etc	Sum	1		
12.22.4		Each sub-contractor needs to appoint a full-time site supervisor to be on site while their work is taking place	Sum	1		
12.22.5		Principle Contractor to have a supervisor on site during after-hours and all subbie work	Sum	1		
<b>12.23</b>		<b><u>Lifting Machines including Mobile Cranes, Truck-Mounted Cranes and Tower Crane (if required)</u></b>				
12.23.1		Dedicated trained banks men to be appointed – one at bottom and one at elevated area per crane	Sum	1		
12.23.2		Guide ropes to be available and to be used for each and every load	Sum	1		
12.23.3		Inspection of all lifting tackle and attachments once every three months by a certified individual. Records to be available as proof	Sum	1		
12.23.4		Full inspections of all lifting machines once every 6 months or more often depending on the manufacturer's requirements. LMI to undertake the inspections	Sum	1		
12.23.5		Annual load test of all lifting machines	Sum	1		
12.23.6		Other Health and Safety fixed charge expenses incurred in complying with the requirements of the Contract not included above . (Specify):	Sum	1		
12.23.7		Other Health and Safety time related expenses incurred in complying with the requirements of the Contract not included above . (Specify):	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

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CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)

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Item No	Paymt Refer	Description	Unit	Qty	Rate	Amount R c
		<b><u>SCHEDULE 13: ENVIRONMENTAL MANAGEMENT</u></b>				
		<b>Allow for all costs and expenses at the various sites in connection with the following:-</b>				
13.1		Compliance with the Environmental Management Specification and Programme.	Item	1		
13.2		Other Environmental Management expenses incurred in complying with the requirements of the Contract not included above.	Item	1		

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TOTAL CARRIED FORWARD TO SUMMARY

ITEM NO.	PAYM. REF.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SCHEDULE 14: TARGETED ENTERPRISE ADMINISTRATION</b>						
<b><u>STAKEHOLDER AND COMMUNITY LIAISON</u></b>						
14.1	PCY13.1a	Cost of liaison and plc support	Pc Sum	1	R 100,000.00	
14.2	PCY13.1a	<u>Extra-over item 14.1 for:</u> Contractor's handling fee	%	R100,000		
<b><u>TENDER PROCESS FOR TARGETED ENTERPRISES</u></b>						
Contractor's charge for the management and execution of the targeted enterprise procurement process:						
14.3	PCY13.2 (i)	Procurement process for the totality of all tenders concluded for the appointment of CIDB rated targeted enterprise subcontractors.	No	1		
<b><u>RESPONSIBILITIES OF THE CONTRACTOR TOWARDS TARGETED ENTERPRISES</u></b>						
14.4	PCY13.3 a	Contractor's establishment, management, management support, assistance, coaching, guidance, mentoring and supervision of targeted enterprises	Month	36		
14.5	PCY13.3 b	Targeted enterprise construction manager	Month	36		
14.6	PCY13.3 c	Targeted enterprise site supervisors	Month	36		
<b><u>CONSTRUCTION WORKS BY TARGETED ENTERPRISES</u></b>						
14.7	PCY 13.4	Payments associated with the construction works carried out by CIDB rated targeted enterprise subcontractors appointed in consultation with the Employer in terms of section PSY  <u>Extra-over item 14.7 for:</u>	Prov. Sum	1	R51,527,615.95	

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

14.8		Contractor's handling fee on an estimated amount	%	51,527,615.95		
<b>TOTAL CARRIED TO NEXT PAGE</b>						
ITEM NO.	PAYM. REF.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<b>BROUGHT FORWARD</b>				
		<b><u>TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE</u></b>				
		<b><u>TRAINING COSTS</u></b>				
14.9	PCY13.5a(iii)	c) Community skills training	Prov. Sum	1	R300,000.00	
14.10	PCY13.5d(iv)	d) Training venue	Prov. Sum	1	R100,000.00	
		<b><u>STUDENT EXPERIENTIAL TRAINING</u></b>				
14.11	PCY13.5b(i)	a) Student Stipends	Prov. Sum	1	R450,000.00	
14.12	PCY13.5b(ii)	b) Provision of experiential training	Person Month	60	R4,500.00	
14.13		<u>Extra-over item 14.9 to 14.11 for:</u> Contractor's handling fee	%	R850 000		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2





**CONSTRUCTION OF THE LOSKOP REGIONAL BULK WATER SUPPLY SCHEME IN  
THEMBISILE HANI LOCAL MUNICIPALITY – WORK PACKAGE 3 (20 ML/D WATER  
PURIFICATION PLANT IN VERENA D AND CLEAR WATER GRAVITY MAIN LINE)**

<b>TOTAL SCHEDULE CARRIED FORWARD TO SUMMARY</b>						

**SUMMARY**

<b>Schedule</b>	<b>Description</b>	<b>Amount</b>
1	PRELIMINARY AND GENERAL	
2	SITE WORKS	
3	WORKSHOP	
4	INLET WORKS	
5	DAFF BUILDING	
6	GAC FILTERS	
7	CHLORINE DOSING BUILDING	
8	CHLORINE CONTACT CHANNEL	
9	BACKWASH RECYCLE PUMP STATION	
10	FLOW METER CHAMBERS	
11	PIPE SPECIALS	
12	HEALTH AND SAFETY	
13	ENVIRONMENTAL	
14	TARGETED ENTERPRISE ADMINISTRATION	
<b>SUB-TOTAL</b>		
<b><u>CONTINGENCIES</u></b> Allow the sum of 10% (ten percent) of the above Sub-total for Contingencies to be spent as the Employer's Agent may direct and to be deducted in whole or in part if not required.		
<b>TOTAL INCLUDING CONTINGENCIES</b>		
<b>ESCALATION (10%)</b>		
<b>TOTAL INCLUDING ESCALATION</b>		
<b><u>VALUE ADDED TAX</u></b> ADD: VAT at the rate of 15%		
<b>Total</b>		

Tenderer

Witness 1

Witness 2

Employer

Witness 1

Witness 2