

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward			R																								
	<u>Soil insecticide</u>																											
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m2	240																									
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 9</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 0</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 0</td> <td>F : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 9</td> <td>L : 22</td> </tr> <tr> <td>M : 33</td> <td>N : 20</td> <td>O : 8</td> <td>P : 22</td> </tr> <tr> <td>Q : 16</td> <td>R : 32</td> <td>S : 33</td> <td>T : 25</td> </tr> <tr> <td>U : 13</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 9	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 0	K : 9	L : 22	M : 33	N : 20	O : 8	P : 22	Q : 16	R : 32	S : 33	T : 25	U : 13	V : 0					
A : 9	B : 0	C : 0	D : 0																									
E : 0	F : 0	G : 0	H : 0																									
I : 0	J : 0	K : 9	L : 22																									
M : 33	N : 20	O : 8	P : 22																									
Q : 16	R : 32	S : 33	T : 25																									
U : 13	V : 0																											
	Carried to Summary			R																								
	Bill No. 3 Earthworks																											

Item No		Quantity	Rate	Amount
	<u>BILL No. 4</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/6mm concrete</u>			
1	Surface beds cast in panels to falls and currents to raise floor level	m3	24	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 24 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	<u>25Mpa/19mm concrete</u>			
2	Strip footings	m3	36	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 1 L : 5			
	M : 5 N : 4 O : 1 P : 4			
	Q : 1 R : 6 S : 4 T : 2			
	U : 3 V : 0			
	<u>REINFORCED CONCRETE</u>			
	Carried Forward			R
	Bill No. 4 Concrete, formwork and reinforcement			

Brought Forward				R
<u>25 MPa/ 19mm Concrete poured around reinforcement:</u>				
3	Ramps cast in panels on waterproofing to currents and falls	m3	30	
	A: 0 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 2 H: 0			
	I: 0 J: 0 K: 1 L: 2			
	M: 3 N: 2 O: 1 P: 2			
	Q: 1 R: 4 S: 3 T: 1			
	U: 1 V: 5			
4	Average 388mm wide x 175mm high thickening to edge of ramp including excavations, compaction, dpc, etc	m	19	
	A: 0 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 6 H: 0			
	I: 0 J: 0 K: 1 L: 1			
	M: 1 N: 1 O: 1 P: 1			
	Q: 1 R: 1 S: 1 T: 1			
	U: 2 V: 1			
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25 MPa/ 19mm Concrete poured around reinforcement:</u>				
5	Surface beds cast in panels on waterproofing	m3	5	
	A: 0 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 4			
6	Lift bases	m3	5	
	A: 3 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 3			
Carried Forward				R
Bill No. 4 Concrete, formwork and reinforcement				

		Brought Forward		R
<u>Saw cut joints:</u>				
14	Form 3 x 40mm saw cut to top of concrete within 12 hours of pouring. Allow to cure for 7 days, then ream out to form 13mm deep and 6mm wide recess.	m	202	
	A : 13 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 105 J : 0 K : 5 L : 11			
	M : 9 N : 8 O : 3 P : 5			
	Q : 4 R : 9 S : 10 T : 9			
	U : 6 V : 8			
<u>REINFORCEMENT</u>				
<u>Fabric reinforcement</u>				
15	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	472	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 20 H : 0			
	I : 201 J : 0 K : 9 L : 22			
	M : 35 N : 20 O : 8 P : 22			
	Q : 14 R : 32 S : 33 T : 19			
	U : 10 V : 28			
16	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	36	
	A : 18 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 18			
Carried to Summary				R
Bill No. 4 Concrete, formwork and reinforcement				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 5</u></p> <p><u>MASONRY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> <p><u>Cement mortar</u></p> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <p><u>External walls, etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	Bill No. 5 Masonry			

Brought Forward					R
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>Samples, etc</u>					
Rates for brickwork, faced brickwork, etc shall include for all required samples					
<u>BRICKWORK</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in foundations (Provisional)</u>					
1	One brick walls			m2	76
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 4	L : 12	
	M : 10	N : 8	O : 2	P : 6	
	Q : 1	R : 12	S : 9	T : 5	
	U : 6	V : 1			
<u>Brickwork of NFP bricks</u>					
2	Half brick walls			m2	62
	A : 0	B : 13	C : 9	D : 2	
	E : 18	F : 4	G : 0	H : 12	
	I : 0	J : 0	K : 0	L : 0	
	M : 4	N : 0	O : 0	P : 0	
	Q : 0	R : 0	S : 0	T : 0	
	U : 0	V : 0			
3	One brick walls			m2	113
	A : 0	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 2	L : 12	
	M : 21	N : 11	O : 2	P : 14	
	Q : 1	R : 25	S : 16	T : 6	
	U : 3	V : 0			
Carried Forward					R
Bill No. 5 Masonry					

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	Brought Forward			R
4	One and a half brick walls	m2	1	
	A: 0 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 1 R: 0 S: 0 T: 0			
	U: 0 V: 0			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Cutting toothings to join new brickwork with old brickwork</u>			
5	Cutting toothings and bonding new brickwork to existing	m2	7	
	A: 0 B: 1 C: 1 D: 0			
	E: 1 F: 0 G: 0 H: 1			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 1 V: 0			
	<u>Joint forming material in movement joints</u>			
6	12mm Bitumen impregnated fibre board built in vertically through brick walls in foundations (Provisional)	m2	4	
	A: 0 B: 0 C: 0 D: 0			
	E: 0 F: 0 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 1 V: 0			
	<u>Brickwork reinforcement</u>			
7	75mm Wide reinforcement built in horizontally	m	179	
	A: 0 B: 40 C: 27 D: 7			
	E: 49 F: 12 G: 0 H: 29			
	I: 0 J: 0 K: 0 L: 0			
	M: 15 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 0			
	Carried Forward			R
	Bill No. 5 Masonry			

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		Brought Forward		R
8	150mm Wide reinforcement built in horizontally	m	440	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 23 L : 49			
	M : 54 N : 62 O : 14 P : 37			
	Q : 8 R : 57 S : 67 T : 33			
	U : 34 V : 3			
	<u>"Type A.P.S" prestressed fabricated lintels</u>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	8	
	A : 0 B : 2 C : 2 D : 0			
	E : 2 F : 0 G : 0 H : 1			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	<u>Turning pieces to lintels etc</u>			
10	110mm Wide turning pieces	m	8	
	A : 0 B : 2 C : 2 D : 0			
	E : 2 F : 0 G : 0 H : 1			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	<u>Galvanised hoop iron cramps, ties, etc</u>			
11	32 x 1,6mm Cramp 600mm long once bend with one end nailed to timber frame and one end built into brickwork	No	40	
	A : 0 B : 8 C : 12 D : 4			
	E : 8 F : 4 G : 0 H : 4			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	<u>FACE BRICKWORK</u>			
	Carried Forward			R
	Bill No. 5 Masonry			

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Brought Forward							
	<u>" Face bricks at (PC Amount R 7000/1000 delivered to site) with recessed horizontal and vertical joints.</u>						R
12	Extra over brickwork for face brickwork	m2	6				
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 P : 0						
	Q : 0 R : 0 S : 0 T : 6						
	U : 0 V : 0						
	<u>Brick-on-edge header course copings, sills, etc pointed with recessed joints on all exposed faces</u>						
13	Coping on top of one brick wall pointed on top and both sides	m	14				
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 P : 0						
	Q : 0 R : 0 S : 0 T : 14						
	U : 0 V : 0						
	Carried to Summary						R
	Bill No. 5 Masonry						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL No. 6</u></p> <p><u>WATERPROOFING</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u></p>			
1	<p>Under surface beds</p> <p style="margin-left: 40px;">A : 9 B : 0 C : 0 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 0</p> <p style="margin-left: 40px;">I : 0 J : 0 K : 9 L : 22</p> <p style="margin-left: 40px;">M : 33 N : 21 O : 8 P : 22</p> <p style="margin-left: 40px;">Q : 14 R : 37 S : 33 T : 25</p> <p style="margin-left: 40px;">U : 13 V : 6</p> <p><u>JOINT SEALANTS, ETC</u></p>	m2	250	
	Carried Forward		R	
	Bill No. 6 Waterproofing			

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Brought Forward									
									R
		<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>							
2	6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	205						
	A : 0 B : 0 C : 0 D : 0								
	E : 0 F : 0 G : 13 H : 0								
	I : 105 J : 0 K : 5 L : 11								
	M : 11 N : 8 O : 3 P : 5								
	Q : 4 R : 9 S : 11 T : 9								
	U : 6 V : 8								
3	12 x 10mm In expansion joints in floors/walls including raking out expansion joint filler as necessary (Provisional)	m	42						
	A : 0 B : 0 C : 0 D : 0								
	E : 0 F : 0 G : 0 H : 0								
	I : 0 J : 0 K : 2 L : 4								
	M : 3 N : 5 O : 3 P : 4								
	Q : 2 R : 4 S : 4 T : 2								
	U : 6 V : 1								
Carried to Summary									R
Bill No. 6 Waterproofing									

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>ROOF CONSTRUCTION</u></p> <p><u>PRETREATMENT OF TIMBER</u></p> <p>This service falls within the areas defined in Government Gazette No. 2577 of 1978-12-29 containing regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in the building and tenderers are to make allowance in their rates.</p>			
	Carried Forward		R	
	Bill No. 7 Carpentry & Joinery			

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				Brought Forward		R
<u>ROOFS, ETC</u>						
<u>Sawn softwood</u>						
1	38 x 38mm Hangers			m	3	
	A:0	B:0	C:0	D:0		
	E:0	F:0	G:0	H:0		
	I:0	J:0	K:0	L:0		
	M:0	N:0	O:0	P:0		
	Q:0	R:0	S:0	T:0		
	U:0	V:3				
2	150 x 50mm Rafters			m	3	
	A:0	B:0	C:0	D:0		
	E:0	F:0	G:0	H:0		
	I:0	J:0	K:0	L:0		
	M:0	N:0	O:0	P:0		
	Q:0	R:0	S:0	T:0		
	U:0	V:3				
3	38 x 114mm Wall plate			m	3	
	A:0	B:0	C:0	D:0		
	E:0	F:0	G:0	H:0		
	I:0	J:0	K:0	L:0		
	M:0	N:0	O:0	P:0		
	Q:0	R:0	S:0	T:0		
	U:0	V:3				
4	50 x 76mm Purlins			m	6	
	A:0	B:0	C:0	D:0		
	E:0	F:0	G:0	H:0		
	I:0	J:0	K:0	L:0		
	M:0	N:0	O:0	P:0		
	Q:0	R:0	S:0	T:0		
	U:0	V:6				
				Carried Forward		R
Bill No. 7 Carpentry & Joinery						

Brought Forward									
									R
<u>ROOF SUNDRIES</u>									
5	Teco "or equal approved" two way hurricane clips.			No	6				
	A:0	B:0	C:0	D:0					
	E:0	F:0	G:0	H:0					
	I:0	J:0	K:0	L:0					
	M:0	N:0	O:0	P:0					
	Q:0	R:0	S:0	T:0					
	U:0	V:6							
6	Two coats ABE provonite "or equal approved" on sawn roof timbers.			m2	6				
	A:0	B:0	C:0	D:0					
	E:0	F:0	G:0	H:0					
	I:0	J:0	K:0	L:0					
	M:0	N:0	O:0	P:0					
	Q:0	R:0	S:0	T:0					
	U:0	V:6							
<u>SKIRTINGS</u>									
<u>Wrought meranti</u>									
7	69 x 22mm Skirting nailed			m	6				
	A:0	B:4	C:0	D:0					
	E:0	F:0	G:0	H:2					
	I:0	J:0	K:0	L:0					
	M:0	N:0	O:0	P:0					
	Q:0	R:0	S:0	T:0					
	U:0	V:0							
<u>DOORS, ETC</u>									
<u>Wrot meranti "BB" doors hung to steel frames:</u>									
8	44 mm Thick TDM "BB" door size 900 x 2032mm high.			No	8				
	A:0	B:1	C:1	D:1					
	E:2	F:1	G:0	H:1					
	I:0	J:0	K:1	L:0					
	M:0	N:0	O:0	P:0					
	Q:0	R:0	S:0	T:0					
	U:0	V:0							
Carried Forward									R
Bill No. 7 Carpentry & Joinery									

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Brought Forward							
							R
<u>Double rebated Meranti door frame suitable for one brick wall</u>							
13	Frame for door size 900 x 2032mm high.		No		1		
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 1 L : 0						
	M : 0 N : 0 O : 0 P : 0						
	Q : 0 R : 0 S : 0 T : 0						
	U : 0 V : 0						
14	Frame for double door size 1800 x 2032mm high.		No		1		
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 0 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 P : 0						
	Q : 0 R : 0 S : 0 T : 0						
	U : 0 V : 1						
<u>WALL CAPPING IN WROT MERANTI</u>							
<u>Wrot meranti</u>							
15	115 X 22mm round edge capping mitred corners plugged to walls		m		3		
	A : 0 B : 0 C : 0 D : 0						
	E : 0 F : 3 G : 0 H : 0						
	I : 0 J : 0 K : 0 L : 0						
	M : 0 N : 0 O : 0 P : 0						
	Q : 0 R : 0 S : 0 T : 0						
	U : 0 V : 0						
<u>EAVES, VERGES, ETC.</u>							
Carried Forward							R
Bill No. 7 Carpentry & Joinery							

		Brought Forward		R
		<u>Everite FC77 "or equal approved" pressed fibre-cement:</u>		
16	10 x 225mm Fascia boards including galvanized steel H-profile jointing strips.	m	3	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 3			
	<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>			
	The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc			
	Prices are to include for all necessary filler pieces against walls etc			
	<u>Cupboard are to be manufactured of 16mm Formica 367 Venza Oak Wood Grain particle board with 0.8mm melamine finish on both sides and edges. Tops are to be of 30mm Rustenburg granite.</u>			
	<u>Doors to be of 16mm Formica 367 Venza Oak Wood grain particle board with 0.8mm melamine finish on both sides and edges</u>			
	<u>Shelves to be of 16mm Formica 367 Venza Oak Wood grain particle board with 0.8mm melamine finish on both sides and edges with self support clips</u>			
	<u>Doors are to be hung on self closing adjustable hinges</u>			
	<u>Doors are to be fitted with brushed aluminium handles to architect's approval</u>			
	<u>Where described as "locakable: doors and drawes are to be fitted with quality cylinder cupboard locks with necked barrel bolts to double doors to architects approval</u>			
	Carried Forward			R
	Bill No. 7 Carpentry & Joinery			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward				R
	<u>Vanity cupboards etc</u>				
17	2085mm long x 600mm wide x 900mm high built-in vanity floor unit consisting of 30mm wide granite tops with cut-out for 2 No oval shaped wash hand basins size 550 x 350mm, with one shelve placed in the middle of unit on self supporting clips, and two cupboards doors opening out	No		1	
	A : 0 B : 1 C : 0 D : 0				
	E : 0 F : 0 G : 0 H : 0				
	I : 0 J : 0 K : 0 L : 0				
	M : 0 N : 0 O : 0 P : 0				
	Q : 0 R : 0 S : 0 T : 0				
	U : 0 V : 0				
	Carried to Summary				R
	Bill No. 7 Carpentry & Joinery				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p><u>CEILING, ETC</u></p> <p><u>NAILED UP CEILING</u></p> <p><u>"Rhino" gypsum plasterboard cornices</u></p>			
1	<p>75mm Coved cornices</p> <p style="margin-left: 40px;">A : 0 B : 10 C : 10 D : 0</p> <p style="margin-left: 40px;">E : 0 F : 0 G : 0 H : 10</p> <p style="margin-left: 40px;">I : 0 J : 0 K : 0 L : 0</p> <p style="margin-left: 40px;">M : 0 N : 0 O : 0 P : 0</p> <p style="margin-left: 40px;">Q : 0 R : 0 S : 0 T : 0</p> <p style="margin-left: 40px;">U : 0 V : 0</p>	m	31	
	Carried Forward			R
	<p>Bill No. 8 Ceilings, Partitions And Access Flooring</p>			

		Brought Forward		R
<u>6 mm Thick Everite - Nutec "or equal approved" fibre cement ceiling with H-profile PVC jointing strips</u>				
2	Ceilings including 38 x 38mm sawn softwood ceiling brandering at 450mm centres		m2	35
	A : 0 B : 5 C : 4 D : 5			
	E : 10 F : 6 G : 0 H : 5			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
<u>W-shaped aliminium shadowline cornices</u>				
3	Shadowline wall angle plugged to wall at 300mm centres		m	66
	A : 0 B : 12 C : 8 D : 9			
	E : 18 F : 9 G : 0 H : 10			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
<u>INSULATION</u>				
<u>75 mm Thick Isotherm "or equal approved" mineral fibre insulation</u>				
4	Insulation laid over brandering between trusses		m2	35
	A : 0 B : 5 C : 4 D : 5			
	E : 10 F : 6 G : 0 H : 6			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
		Carried to Summary		R
Bill No. 8				
Ceilings, Partitions And Access Flooring				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p><u>Fixing</u></p> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories</p> <p>Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer</p>			
	Carried Forward		R	
	Bill No. 9 Ironmongery			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBLTY FOR PERSONS WITH DISABILITIES**

				Brought Forward		R
4	2261-76SS Four lever mortice lock master keyed	No		3		
	A:0 B:1 C:1 D:0					
	E:0 F:0 G:0 H:0					
	I:0 J:0 K:1 L:0					
	M:0 N:0 O:0 P:0					
	Q:0 R:0 S:0 T:0					
	U:0 V:0					
5	Cisa cylinder logoline lock with furniture handle TH120/Bp with 170 x 170mm backplate including cylinder sash lock and rebated kit for lock, complete	No		1		
	A:0 B:0 C:0 D:0					
	E:0 F:0 G:0 H:0					
	I:0 J:0 K:0 L:0					
	M:0 N:0 O:0 P:0					
	Q:0 R:0 S:0 T:0					
	U:0 V:1					
6	Toilet indicating bolt displaying vacant and occupied	No		1		
	A:0 B:0 C:1 D:0					
	E:0 F:0 G:0 H:0					
	I:0 J:0 K:0 L:0					
	M:0 N:0 O:0 P:0					
	Q:0 R:0 S:0 T:0					
	U:0 V:0					
<u>HANDLES</u>						
7	Aluminium lever type door handles per set	No		8		
	A:0 B:1 C:1 D:1					
	E:2 F:1 G:0 H:1					
	I:0 J:0 K:1 L:0					
	M:0 N:0 O:0 P:0					
	Q:0 R:0 S:0 T:0					
	U:0 V:0					
8	25mm Diameter aluminium pull handle 300mm long	No		8		
	A:0 B:1 C:1 D:1					
	E:2 F:1 G:0 H:1					
	I:0 J:0 K:1 L:0					
	M:0 N:0 O:0 P:0					
	Q:0 R:0 S:0 T:0					
	U:0 V:0					
				Carried Forward		R
Bill No. 9 Ironmongery						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBLTY FOR PERSONS WITH DISABILITIES**

Brought Forward							
9	150mm Long lever type door handle with swing over indicator bolt and emergency release from the outside	No	7				R
	A: 0 B: 1 C: 1 D: 1						
	E: 2 F: 1 G: 0 H: 1						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
	<u>DOOR CLOSERS</u>						
10	Door closer complete	No	8				
	A: 0 B: 1 C: 1 D: 1						
	E: 2 F: 1 G: 0 H: 1						
	I: 0 J: 0 K: 1 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
	<u>PUSH AND KICKING PLATES</u>						
11	150 x 700 mm AL 50289AS push plate	No	16				
	A: 0 B: 2 C: 2 D: 2						
	E: 4 F: 2 G: 0 H: 2						
	I: 0 J: 0 K: 2 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
12	150 x 800 mm AL 50289AS kicking plate	No	16				
	A: 0 B: 2 C: 2 D: 2						
	E: 4 F: 2 G: 0 H: 2						
	I: 0 J: 0 K: 2 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
Carried Forward							R
Bill No. 9 Ironmongery							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward						R
<u>LETTERS, NAMEPLATES, ETC</u>						
13	152 x 152mm Anodised aluminium plate with paraplegic symbol	No	26			
	A: 0 B: 1 C: 1 D: 1					
	E: 2 F: 1 G: 2 H: 1					
	I: 0 J: 3 K: 1 L: 2					
	M: 1 N: 1 O: 0 P: 1					
	Q: 1 R: 1 S: 1 T: 1					
	U: 2 V: 2					
14	152 x 152mm Anodised aluminium plate with unisex symbol	No	6			
	A: 0 B: 1 C: 1 D: 1					
	E: 2 F: 1 G: 0 H: 0					
	I: 0 J: 0 K: 0 L: 0					
	M: 0 N: 0 O: 0 P: 0					
	Q: 0 R: 0 S: 0 T: 0					
	U: 0 V: 0					
15	152 x 152mm Anodised aluminium plate male or female unisex symbol	No	2			
	A: 0 B: 1 C: 0 D: 0					
	E: 0 F: 0 G: 0 H: 1					
	I: 0 J: 0 K: 0 L: 0					
	M: 0 N: 0 O: 0 P: 0					
	Q: 0 R: 0 S: 0 T: 0					
	U: 0 V: 0					
16	152 x 152mm Anodised aluminium plate with directional arrow	No	21			
	A: 2 B: 0 C: 0 D: 0					
	E: 0 F: 0 G: 2 H: 0					
	I: 0 J: 3 K: 1 L: 2					
	M: 1 N: 1 O: 0 P: 1					
	Q: 1 R: 1 S: 1 T: 1					
	U: 2 V: 2					
Carried Forward						R
Bill No. 9 Ironmongery						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward				
				R	
17	300 x 300mm Anodised aluminium plate with the international symbol of accessibility for disabled persons. A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 1 M : 0 N : 1 O : 0 P : 0 Q : 0 R : 1 S : 0 T : 0 U : 0 V : 0	No	4		
18	2000 x 1000 mm High aluminium sign plate 3mm thick with twenty 60mm Wide x 150mm high Areal Bold "upper case" acid etched letters including fixing to wall with epoxy and six 60mm M8 expansion bolts A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0	No	1		
	<u>80mm High x 5mm thick clear perspex plates with 50mm high "Helvetica" engraved letters or numerals, four times drilled for and screwed to timber.</u>				
19	Plate with five letters or numerals A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 2 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0	No	2		
20	Plate with six to ten letters or numerals A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 2 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0	No	2		
	Carried Forward			R	
	Bill No. 9 Ironmongery				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward							
21	Plate with eleven to fifteen letters or numerals	No	2				R
	A:0 B:0 C:0 D:0						
	E:0 F:0 G:0 H:0						
	I:2 J:0 K:0 L:0						
	M:0 N:0 O:0 P:0						
	Q:0 R:0 S:0 T:0						
	U:0 V:0						
22	Plate with sixteen to twenty letters or numerals	No	2				
	A:0 B:0 C:0 D:0						
	E:0 F:0 G:0 H:0						
	I:2 J:0 K:0 L:0						
	M:0 N:0 O:0 P:0						
	Q:0 R:0 S:0 T:0						
	U:0 V:0						
<u>BATHROOM FITTINGS</u>							
<u>Franke "or equal approved"</u>							
23	STRX671 "Stratos" wall mounted double toilet roll holder	No	7				
	A:0 B:1 C:1 D:1						
	E:2 F:1 G:0 H:1						
	I:0 J:0 K:0 L:0						
	M:0 N:0 O:0 P:0						
	Q:0 R:0 S:0 T:0						
	U:0 V:0						
24	STRX600 "Stratos" wall mounted paper towel dispenser	No	7				
	A:0 B:1 C:1 D:1						
	E:2 F:1 G:0 H:1						
	I:0 J:0 K:0 L:0						
	M:0 N:0 O:0 P:0						
	Q:0 R:0 S:0 T:0						
	U:0 V:0						
25	STRX618 "Stratos" wall mounted hand soap dispenser	No	7				
	A:0 B:1 C:1 D:1						
	E:2 F:1 G:0 H:1						
	I:0 J:0 K:0 L:0						
	M:0 N:0 O:0 P:0						
	Q:0 R:0 S:0 T:0						
	U:0 V:0						
Carried Forward							R
Bill No. 9 Ironmongery							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

				Brought Forward			R
26	STRX607 "Stratos" wall mounted waste bin fix approximately fixed 150mm above finished floor level	No			7		
	A: 0 B: 1 C: 1 D: 1						
	E: 2 F: 1 G: 0 H: 1						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
27	Stainless steel dog leg grab rail with three angled sides fixed to wall in three places	No			11		
	A: 0 B: 1 C: 1 D: 2						
	E: 4 F: 2 G: 0 H: 1						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
28	Stainless steel rear grab rail 550mm long fixed around cistern.	No			7		
	A: 0 B: 1 C: 1 D: 1						
	E: 2 F: 1 G: 0 H: 1						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
29	Stainless steel vertical grab rail 550mm long fixed next to shower seat	No			4		
	A: 0 B: 0 C: 0 D: 1						
	E: 2 F: 1 G: 0 H: 0						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
				Carried Forward			R
Bill No. 9 Ironmongery							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 10</u></p> <p><u>METALWORK</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>GRADE 304 STAINLESS STEEL HANDRAILS, BALUSTRADES, ETC (PROVISIONAL)</u></p>			
	Carried Forward		R	
	Bill No. 10 Metalwork			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward		R
<u>Interlink ball type system welded and bolted balustrades to ramps</u>		
1	<p>Horizontal balustrades to ramps 1000mm high, formed of 50mm external diameter x 2mm thick continuous pipe handrail, 50 x 2mm thick continues pipe knee rail 450mm above surface of ramp, 50mm diameter x 2mm thick tube stanchion posts at approximately 1000mm centres with 150 x 150 x 5mm footplate bolted to concrete (bolts elsewhere) 4 times pre-drilled</p> <p style="text-align: right;">m</p> <p style="text-align: right;">60</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 7 N : 10 O : 4 P : 7 Q : 0 R : 13 S : 10 T : 3 U : 5 V : 1</p>	
2	<p>Raking balustrades to ramps 1000mm high, formed of 50mm external diameter x 2mm thick continuous pipe handrail, 50 x 2mm thick continues pipe knee rail 450mm above surface of ramp, 50mm diameter x 2mm thick tube stanchion posts at approximately 1000mm centres with 150 x 150 x 5mm footplate bolted to concrete (bolts elsewhere) 4 times pre-drilled</p> <p style="text-align: right;">m</p> <p style="text-align: right;">170</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 6 H : 0 I : 0 J : 10 K : 8 L : 18 M : 23 N : 14 O : 4 P : 18 Q : 4 R : 23 S : 16 T : 10 U : 12 V : 4</p>	
3	<p>Raking balustrades to staircase 1000mm high, formed of 50mm external diameter x 2mm thick continuous pipe handrail, 50 x 2mm thick continues pipe knee rail 450mm above surface of ramp, 50mm diameter x 2mm thick tube stanchion posts at approximately 1000mm centres with 150 x 150 x 5mm footplate bolted to concrete (bolts elsewhere) 4 times pre-drilled</p> <p style="text-align: right;">m</p> <p style="text-align: right;">5</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 2 H : 0 I : 0 J : 0 K : 0 L : 0 M : 2 N : 0 O : 0 P : 0 Q : 0 R : 2 S : 0 T : 0 U : 0 V : 0</p>	
Carried Forward		R
Bill No. 10 Metalwork		

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward									
4	Extra over 50mm rail for 90 degree bend	No	12						
	A: 0 B: 0 C: 0 D: 0								
	E: 0 F: 0 G: 2 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 3 O: 1 P: 2								
	Q: 0 R: 4 S: 0 T: 0								
	U: 0 V: 0								
5	Extra over 50mm rail for 135 degree bend	No	18						
	A: 0 B: 0 C: 0 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 3 O: 1 P: 2								
	Q: 0 R: 3 S: 0 T: 4								
	U: 4 V: 1								
6	Extra over 50mm rail for straight end closure piece	No	2						
	A: 0 B: 0 C: 0 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 2 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
7	Extra over 50mm rail for 45 degree angle end closure piece	No	2						
	A: 0 B: 0 C: 0 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 2 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
8	Extra over 50mm rail for tube type end bracket size 150x75x5mm twice pre-drilled and bolted to wall	No	2						
	A: 0 B: 0 C: 0 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 2 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
Carried Forward									
Bill No. 10 Metalwork									
				R					

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

		Brought Forward		R
9	12mm x 100mm long chemical anchor with loose bolt	No	836	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 52 H : 0			
	I : 0 J : 48 K : 0 L : 36			
	M : 128 N : 96 O : 0 P : 100			
	Q : 0 R : 136 S : 104 T : 52			
	U : 64 V : 20			
	<u>Welded and bolted handrails to walls</u>			
10	50mm Diameter continuous pipe handrail 40mm from wall with brackets welded to handrail at 1500mm centres and 150 x 100mm base plate four times holed and bolted to wall.	m	6	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 6			
11	12mm Thick x 100mm Long expansion bolt	No	16	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 16			
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames with brass nylon hinges suitable for half brick walls</u>			
12	Frame for door 813 x 2032mm high.	No	1	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 1			
	<u>ALUMINIUM FRAMED AND UNFRAMED SHOWER CUBICLE PANELS AND DOORS ETC</u>			
	Carried Forward			R
	Bill No. 10 Metalwork			

	Brought Forward				
	<u>"CrystalTech" or equal approved natural anodised aluminium framed shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc and 5mm tempered obscure glass, plugged to tiled walls and sealed with silicone sealant</u>				R
13	Fixed panel 900 x 1850mm high A : 0 B : 0 C : 0 D : 1 E : 2 F : 1 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0	No	4		
	<u>ALUMINIUM SHOPFRONTS, WINDOWS, DOORS, ETC</u>				
	<u>Natural anodized, aluminium door, glazed with 6.5mm laminated safety glass plugged to brickwork or concrete with silicon all around</u>				
14	Single door 1000 x 2100mm high with Cisa 44860 door lock with cylinder keyed both sides and one pair of 32mm Decor straight T pull handle A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 1	No	1		
15	Fixed panel 2100 x 1000mm overall A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 1	No	1		
	Carried to Summary				R
	Bill No. 10 Metalwork				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 11</u></p> <p><u>PLASTERING</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p>			
	Carried Forward		R	
	Bill No. 11 Plastering			

	Brought Forward			R																								
	<p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of ? kg pigment per pocket of cement, of uniform appearance and consistent colour throughout</p> <p><u>SCREEDS</u></p> <p><u>Screeds on concrete</u></p> <p>1 30mm Thick on floors to falls and currents m2</p> <table style="margin-left: 40px; border: none;"> <tr> <td>A : 0</td> <td>B : 0</td> <td>C : 0</td> <td>D : 2</td> </tr> <tr> <td>E : 10</td> <td>F : 5</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 0</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 0</td> </tr> <tr> <td>U : 0</td> <td>V : 26</td> <td></td> <td></td> </tr> </table> <p><u>GRANOLITHIC</u></p>	A : 0	B : 0	C : 0	D : 2	E : 10	F : 5	G : 0	H : 0	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	P : 0	Q : 0	R : 0	S : 0	T : 0	U : 0	V : 26			43		
A : 0	B : 0	C : 0	D : 2																									
E : 10	F : 5	G : 0	H : 0																									
I : 0	J : 0	K : 0	L : 0																									
M : 0	N : 0	O : 0	P : 0																									
Q : 0	R : 0	S : 0	T : 0																									
U : 0	V : 26																											
	Carried Forward			R																								
	Bill No. 11 Plastering																											

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

				Brought Forward		R
<u>Untinted granolithic, on concrete</u>						
2	Skirtings 85mm high			m	182	
	A : 0 B : 0 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 182 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 P : 0					
	Q : 0 R : 0 S : 0 T : 0					
	U : 0 V : 0					
<u>INTERNAL PLASTER</u>						
<u>Cement plaster on brickwork</u>						
3	On walls			m2	109	
	A : 0 B : 25 C : 17 D : 5					
	E : 35 F : 9 G : 0 H : 19					
	I : 0 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 P : 0					
	Q : 0 R : 0 S : 0 T : 0					
	U : 0 V : 0					
4	On narrow widths			m2	1	
	A : 0 B : 1 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 0 J : 0 K : 0 L : 0					
	M : 0 N : 0 O : 0 P : 0					
	Q : 0 R : 0 S : 0 T : 0					
	U : 0 V : 0					
<u>EXTERNAL PLASTER</u>						
<u>Cement plaster on brickwork</u>						
5	On walls			m2	106	
	A : 0 B : 0 C : 0 D : 0					
	E : 0 F : 0 G : 0 H : 0					
	I : 0 J : 0 K : 2 L : 14					
	M : 22 N : 13 O : 2 P : 12					
	Q : 1 R : 21 S : 16 T : 0					
	U : 3 V : 0					
				Carried Forward		R
Bill No. 11 Plastering						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward			R
6	On narrow widths	m2	49	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 2 L : 5			
	M : 7 N : 6 O : 2 P : 6			
	Q : 3 R : 8 S : 7 T : 0			
	U : 4 V : 1			
	<u>Dividing strips, etc.</u>			
7	3 x 30 mm Flat section brass dividing strips between different floor finishes	m	1	
	A : 0 B : 1 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	Carried to Summary			R
Bill No. 11 Plastering				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>TILING</u>			
	<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<u>WALL TILING</u>			
	<u>200x 200mm white ceramic wall tiles at a Prime Cost Amount of (P.C. R160 - 00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
1	On walls <div style="margin-left: 20px;"> A : 0 B : 20 C : 17 D : 15 E : 51 F : 12 G : 0 H : 29 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0 </div>	m2		144
2	On narrow widths <div style="margin-left: 20px;"> A : 0 B : 1 C : 1 D : 1 E : 1 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 0 V : 0 </div>	m2		4
	Carried Forward			R
	Bill No. 12 Tiling			

DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES

Brought Forward							
<u>100x100mm non-slip mosaic floor tiles at a Prime Cost Amount of (P.C. R180 - 00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>							R
6	On floors and landings		m2	7			
	A: 0 B: 0 C: 0 D: 0						
	E: 4 F: 3 G: 0 H: 0						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
<u>Genesis "or equal approved"</u>							
7	Code MHB 100 brass movement joint.		m	10			
	A: 0 B: 0 C: 0 D: 2						
	E: 4 F: 2 G: 0 H: 0						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 3						
Carried to Summary							R
Bill No. 12 Tiling							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p>			
	Carried Forward		R	
	Bill No. 13 Plumbing and Drainage			

<p style="text-align: center;">Brought Forward</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><u>Exposed concrete surfaces</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Bill No. 13 Plumbing and Drainage</p>		R	

	Brought Forward			R																								
	<p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p><u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>0.8mm Aluminium with "Colourtech G4" finish</u></p>																											
1	<p>125 x 75mm OGEE seamless eaves gutters</p> <table style="margin-left: 40px;"> <tr><td>A : 0</td><td>B : 3</td><td>C : 0</td><td>D : 0</td></tr> <tr><td>E : 0</td><td>F : 0</td><td>G : 0</td><td>H : 0</td></tr> <tr><td>I : 0</td><td>J : 0</td><td>K : 0</td><td>L : 0</td></tr> <tr><td>M : 0</td><td>N : 0</td><td>O : 0</td><td>P : 0</td></tr> <tr><td>Q : 0</td><td>R : 0</td><td>S : 0</td><td>T : 0</td></tr> <tr><td>U : 0</td><td>V : 0</td><td></td><td></td></tr> </table>	A : 0	B : 3	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	P : 0	Q : 0	R : 0	S : 0	T : 0	U : 0	V : 0			m	3	
A : 0	B : 3	C : 0	D : 0																									
E : 0	F : 0	G : 0	H : 0																									
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M : 0	N : 0	O : 0	P : 0																									
Q : 0	R : 0	S : 0	T : 0																									
U : 0	V : 0																											
	Carried Forward			R																								
	<p>Bill No. 13 Plumbing and Drainage</p>																											

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

				Brought Forward			R
2	Extra over eaves gutter for stopped end			No	2		
	A:0	B:2	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
3	Extra over eaves gutter for corner			No	1		
	A:0	B:1	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
4	Extra over eaves gutter for outlet for 75 x 100mm pipe including wire grating			No	2		
	A:0	B:2	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
5	75 x 100mm Fluted rainwater downpipes in continuous lengths			m	3		
	A:0	B:3	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
6	Extra over rainwater downpipe for eaves offset 1000mm projection			No	2		
	A:0	B:2	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
				Carried Forward			R
Bill No. 13 Plumbing and Drainage							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward								
7	Extra over rainwater downpipe for shoe	No	2						R
	A: 0 B: 2 C: 0 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 0 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
	<u>SANITARY FITTINGS</u>								
	<u>Vaal "or equal approved"</u>								
8	635 x 485mm "Lotus" code 7026 "or equal approved" white vitreous china basin with two code 8448 ZO wall bolts and one taphole	No	7						
	A: 0 B: 1 C: 1 D: 1								
	E: 2 F: 1 G: 0 H: 1								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 0 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
9	Vaal or similar approved vitreous china Protea Paraplegic 90 outlet pan with "DPE A1 De Lux" solid hard double flap plastic toilet seat and 9 litre cistern code 710631 with flush pipe and chromium plated side-flush lever mounted on wall	No	7						
	A: 0 B: 1 C: 1 D: 1								
	E: 2 F: 1 G: 0 H: 1								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 0 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
10	Betta or similar approved white vitreous china outlet pan with Dutton B2 solid hard double flap plastic toilet seat and "Betta universal Cu1 cistern with chromium plated front flush lever with flush pipe	No	1						
	A: 0 B: 0 C: 1 D: 0								
	E: 0 F: 0 G: 0 H: 0								
	I: 0 J: 0 K: 0 L: 0								
	M: 0 N: 0 O: 0 P: 0								
	Q: 0 R: 0 S: 0 T: 0								
	U: 0 V: 0								
	Carried Forward								
	Bill No. 13 Plumbing and Drainage								R

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward				R
<u>TRAPS, ETC</u>				
15	32mm 345 CP bottle trap	No	11	
	A: 0 B: 4 C: 2 D: 1			
	E: 2 F: 1 G: 0 H: 1			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 0			
<u>"Grade 316 Stainless Steel" floor drain with tamper-proof Beta lid and horizontal outlet pipe</u>				
16	GCT 125H OD50	No	4	
	A: 0 B: 0 C: 0 D: 1			
	E: 2 F: 1 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 0			
<u>TAPS, VALVES, ETC</u>				
17	15mm 1003/125 RB fullway gate valve	No	1	
	A: 0 B: 1 C: 0 D: 0			
	E: 0 F: 0 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 0			
18	IDT Boston shower column code TVSH 9928/CH "or equal approved" including 3 body jets integrated into main body, hand shower and mixer, complete	No	4	
	A: 0 B: 0 C: 0 D: 1			
	E: 2 F: 1 G: 0 H: 0			
	I: 0 J: 0 K: 0 L: 0			
	M: 0 N: 0 O: 0 P: 0			
	Q: 0 R: 0 S: 0 T: 0			
	U: 0 V: 0			
Carried Forward				R
Bill No. 13 Plumbing and Drainage				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward							
						R	
<u>Sundries</u>							
19	Stainless steel and aluminium heavy duty fixed fold down seat with non-slip surface with pelvic belt fixed to seat			No	4		
	A : 0	B : 0	C : 0	D : 1			
	E : 2	F : 1	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	P : 0			
	Q : 0	R : 0	S : 0	T : 0			
	U : 0	V : 0					
20	15 mm CP braided flexible hose connector			No	18		
	A : 0	B : 4	C : 4	D : 2			
	E : 4	F : 2	G : 0	H : 2			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	P : 0			
	Q : 0	R : 0	S : 0	T : 0			
	U : 0	V : 0					
21	15 mm CP ballcock shut-off valve with screw type control			No	18		
	A : 0	B : 4	C : 4	D : 2			
	E : 4	F : 2	G : 0	H : 2			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	P : 0			
	Q : 0	R : 0	S : 0	T : 0			
	U : 0	V : 0					
22	15mm code 503-21R "or equal approved" CP elbow action pillar cock			No	7		
	A : 0	B : 1	C : 1	D : 1			
	E : 2	F : 1	G : 0	H : 1			
	I : 0	J : 0	K : 0	L : 0			
	M : 0	N : 0	O : 0	P : 0			
	Q : 0	R : 0	S : 0	T : 0			
	U : 0	V : 0					
<u>SANITARY PLUMBING</u>							
Carried Forward						R	
Bill No. 13 Plumbing and Drainage							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

				Brought Forward		R
<u>uPVC pipes</u>						
23	50mm Pipes			m	35	
	A: 0	B: 10	C: 3	D: 4		
	E: 10	F: 5	G: 0	H: 3		
	I: 0	J: 0	K: 0	L: 0		
	M: 0	N: 0	O: 0	P: 0		
	Q: 0	R: 0	S: 0	T: 0		
	U: 0	V: 0				
24	110mm Pipes			m	7	
	A: 0	B: 1	C: 1	D: 1		
	E: 2	F: 1	G: 0	H: 1		
	I: 0	J: 0	K: 0	L: 0		
	M: 0	N: 0	O: 0	P: 0		
	Q: 0	R: 0	S: 0	T: 0		
	U: 0	V: 0				
<u>Extra over uPVC pipes for uPVC fittings</u>						
25	50mm Adaptor			No	15	
	A: 0	B: 4	C: 2	D: 2		
	E: 4	F: 2	G: 0	H: 1		
	I: 0	J: 0	K: 0	L: 0		
	M: 0	N: 0	O: 0	P: 0		
	Q: 0	R: 0	S: 0	T: 0		
	U: 0	V: 0				
26	50mm Bend			No	18	
	A: 0	B: 2	C: 3	D: 2		
	E: 6	F: 4	G: 0	H: 1		
	I: 0	J: 0	K: 0	L: 0		
	M: 0	N: 0	O: 0	P: 0		
	Q: 0	R: 0	S: 0	T: 0		
	U: 0	V: 0				
27	50mm Access bend			No	1	
	A: 0	B: 0	C: 0	D: 0		
	E: 0	F: 0	G: 0	H: 1		
	I: 0	J: 0	K: 0	L: 0		
	M: 0	N: 0	O: 0	P: 0		
	Q: 0	R: 0	S: 0	T: 0		
	U: 0	V: 0				
				Carried Forward		R
Bill No. 13 Plumbing and Drainage						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

				Brought Forward			R
28	50mm Access junction			No	2		
	A:0	B:2	C:0	D:0			
	E:0	F:0	G:0	H:0			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
29	50mm "GI two-way" vent valve			No	8		
	A:0	B:1	C:2	D:1			
	E:2	F:1	G:0	H:1			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
30	110mm Bend			No	8		
	A:0	B:1	C:2	D:1			
	E:2	F:1	G:0	H:1			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
31	110mm access Bend with 50mm vent horn			No	8		
	A:0	B:1	C:2	D:1			
	E:2	F:1	G:0	H:1			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
32	110mm x 50mm strap on boss			No	7		
	A:0	B:1	C:1	D:1			
	E:2	F:1	G:0	H:1			
	I:0	J:0	K:0	L:0			
	M:0	N:0	O:0	P:0			
	Q:0	R:0	S:0	T:0			
	U:0	V:0					
				Carried Forward			R
Bill No. 13 Plumbing and Drainage							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

		Brought Forward			
33	110mm UG junction	No	8		R
	A: 0 B: 1 C: 2 D: 1				
	E: 2 F: 1 G: 0 H: 1				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
34	110mm Pan connector	No	8		
	A: 0 B: 1 C: 2 D: 1				
	E: 2 F: 1 G: 0 H: 1				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
35	110mm "GI two-way" vent valve	No	1		
	A: 0 B: 1 C: 0 D: 0				
	E: 0 F: 0 G: 0 H: 0				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
	<u>Sundries</u>				
36	Testing waste pipe system		Item		
	A: 0.00 B: 1.00 C: 0.00 D: 0.00				
	E: 0.00 F: 0.00 G: 0.00 H: 0.00				
	I: 0.00 J: 0.00 K: 0.00 L: 0.00				
	M: 0.00 N: 0.00 O: 0.00 P: 0.00				
	Q: 0.00 R: 0.00 S: 0.00 T: 0.00				
	U: 0.00 V: 0.00				
	<u>INTERNAL WATER SUPPLY</u>				
		Carried Forward			R
	Bill No. 13 Plumbing and Drainage				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward					R
<u>Class 2 copper pipes</u>					
37	15mm Pipes			m	49
	A : 0	B : 8	C : 3	D : 17	
	E : 10	F : 8	G : 0	H : 3	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	P : 0	
	Q : 0	R : 0	S : 0	T : 0	
	U : 0	V : 0			
38	22mm Pipes			m	17
	A : 0	B : 3	C : 1	D : 5	
	E : 4	F : 3	G : 0	H : 1	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	P : 0	
	Q : 0	R : 0	S : 0	T : 0	
	U : 0	V : 0			
<u>Extra over class 2 copper pipes for fittings</u>					
39	15mm Bush, elbow, bend, tee, reducing tee, saddles, etc.			No	46
	A : 0	B : 6	C : 4	D : 14	
	E : 12	F : 6	G : 0	H : 4	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	P : 0	
	Q : 0	R : 0	S : 0	T : 0	
	U : 0	V : 0			
40	22mm Bush, elbow, bend, tee, reducing tee, saddles, etc.			No	22
	A : 0	B : 4	C : 2	D : 8	
	E : 4	F : 2	G : 0	H : 2	
	I : 0	J : 0	K : 0	L : 0	
	M : 0	N : 0	O : 0	P : 0	
	Q : 0	R : 0	S : 0	T : 0	
	U : 0	V : 0			
Carried Forward					R
Bill No. 13 Plumbing and Drainage					

				Brought Forward		R
<u>Sundries</u>						
41	Testing internal water reticulation				Item	
	A : 0.00	B : 1.00	C : 0.00	D : 0.00		
	E : 0.00	F : 0.00	G : 0.00	H : 0.00		
	I : 0.00	J : 0.00	K : 0.00	L : 0.00		
	M : 0.00	N : 0.00	O : 0.00	P : 0.00		
	Q : 0.00	R : 0.00	S : 0.00	T : 0.00		
	U : 0.00	V : 0.00				
<u>EXTERNAL WATER RETICULATION</u>						
<u>Class 12 uPVC pressure pipes</u>						
42	25mm Pipe layed in and including trenches			m	3	
	A : 0	B : 3	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	P : 0		
	Q : 0	R : 0	S : 0	T : 0		
	U : 0	V : 0				
<u>Extra over uPVC pressure pipes for solvent welded pressure fittings</u>						
43	25mm Bush, elbow, bend, tee, reducing tee, saddles, etc.			No	6	
	A : 0	B : 6	C : 0	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
	M : 0	N : 0	O : 0	P : 0		
	Q : 0	R : 0	S : 0	T : 0		
	U : 0	V : 0				
<u>Sundries</u>						
44	Testing external water reticulation				Item	
	A : 0.00	B : 1.00	C : 0.00	D : 0.00		
	E : 0.00	F : 0.00	G : 0.00	H : 0.00		
	I : 0.00	J : 0.00	K : 0.00	L : 0.00		
	M : 0.00	N : 0.00	O : 0.00	P : 0.00		
	Q : 0.00	R : 0.00	S : 0.00	T : 0.00		
	U : 0.00	V : 0.00				
				Carried Forward		R
Bill No. 13 Plumbing and Drainage						

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No	Quantity	Rate	Amount
<u>BILL No. 14</u>			
<u>ELECTRICAL WORK</u>			
<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
<u>PREAMBLES</u>			
All equipment, electrical materials or methods of installation shall comply fully with SABS 0142-1 as published December 2001			
<u>SUPPLEMENTARY PREAMBLES</u>			
The descriptions of items in this section is abbreviated descriptions of the work to be done and of the materials to be used, the tenderer are therefore referred to the full specifications for the full descriptions and complete specifications			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<u>ELECTRICAL INSTALLATION</u>			
<u>Schedule of information</u>			
Tenderers are advised that information schedules are included with the project specifications. These schedules must be completed and submitted with the Tenders.			
<u>Labelling & Colour Coding</u>			
The cost of labelling and colour coding must be included within the prices of the respective equipment.			
Carried Forward			R
Bill No. 14 Electrical Work (Provisional)			

	Brought Forward			R
	<p><u>Fixing of conduits</u></p> <p>The fixing of conduits shall be as follows</p> <p>a) Build in conduits in wall chases with cement mortar and clamps</p> <p>b) Fix conduits on wall surfaces and in roof spaces with approved saddles</p> <p>c) Cast conduit in concrete surface beds or slabs</p> <p>d) Do surface fixing level, plumb, neatly and in straight line by means of standard spacer saddles</p> <p><u>Chasing</u></p> <p>All chasing shall be carried out neatly. Do not chase walls constructed of hollow blocks, locate services in the block cavities. Chase solid walls not deeper than one third of the wall thickness vertically and not more than one sixth horizontally. Avoid horizontal chasing where possible. Ensure that chases, holes and recesses are so made as not to impair the strength or stability of the wall, or reduce the fire resistance properties of the wall. Fill chases with mortar once the conduits are in position</p> <p>Chasing and making good have not been measured separately and shall be deemed to be included in the descriptions of conduiting</p> <p><u>Laying of electric cables</u></p> <p>Excavate 600mm below finished ground level</p> <p>Encase the installed cable in river sand or sifted sand</p> <p>Mark the cable route with approved concrete cable markers</p> <p><u>Configuration to existing distribution boards where new installation will be powered from. Install new circuit breakers to match existing , earth bar, labeling and legend cards. All work to be made compliant according to SANS and NDPWI standards.</u></p>			
1	<p>Cut metal cover to accommodate new circuit breakers (circuit breakers elsewhere measured)</p>	No	6	
	Carried Forward			R
	<p>Bill No. 14 Electrical Work (Provisional)</p>			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward			R
2	Tracing existing circuits for labelling and installation of legend cards	No	10
3	Install danger sign on the DB lead/door	No	8
<u>Distribution boards complete with sheetmetal trays, frames, subframes, busbars, provision for future circuit breakers, labeling and legend cards according to SANS and NDPWI standards with earthbar</u>			
4	Surface mounted 8 ways IP55 distribution board size 270 x 140mm for vertical lifts	No	2
<u>Distribution boards - Supply and install circuit breakers with 5kA rating as per departments specification</u>			
5	Blank spacers	No	20
6	6A 5kA 1Ph mccb's (for Disable Alarms)	No	8
7	10A 5kA 1Ph mccb's (for lights)	No	22
8	15A 5kA 1Ph mccb's (for lights)	No	5
9	20A 1Ph mccb's (for SSO)	No	3
10	20A 2Ph mccb's	No	1
11	25A 3Ph mccb's	No	1
12	20A double pole lockable isolator IP66	No	4
13	30A double pole lockable isolator IP66	No	4
14	32A 1Ph mccb's	No	64
15	40A 5kA 1Ph mccb's	No	4
16	63A earth 5kA leakage protection	No	1
<u>LIGHTING AND SMALL POWER</u>			
Carried Forward			R
Bill No. 14 Electrical Work (Provisional)			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward			R
<u>PVC conduit surface mounted on walls or installed in roof space. Including bends, coupling, tees, etc</u>			
17	20mm Diameter	m	550
<u>PVC trunking with cover surface mounted on walls or installed in roof space. Including bends, coupling, tees, etc</u>			
18	25 x 25mm trunking	m	50
<u>CONDUIT BOXES AND FITTINGS</u>			
<u>PVC conduit accessories</u>			
19	Round outlet box for 25mm conduit	No	25
<u>Galvanised steel conduit accessories</u>			
20	100 x 50mm blank cover plate	No	8
21	100 x 50 x 50mm Deep box	No	2
22	100 x 100 x 50mm Deep outlet box	No	2
<u>CONDUCTORS</u>			
<u>PVC insulated stranded copper conductors drawn into wireways</u>			
23	1,5mm ² 3 core	m	65
24	1,5mm ² 4 core fire retardant signal control cable	m	300
25	2,5mm ² earthwire (Bare Copper Earth Wire)	m	20
26	2,5mm ² 3 core	m	55
27	4mm ² 3 core	m	46
28	6mm ² 3 core	m	116
29	10mm ² 3 core	m	30
Carried Forward			R
Bill No. 14 Electrical Work (Provisional)			

Brought Forward		R
<u>LIGHT SWITCHES, SWITCHED SOCKET OUTLETS, ETC.</u>		
<u>Switches, etc complete with cover plates fixed in flush boxes</u>		
30	16A One-lever one-way switch IP55	No 2
31	16A Double three-pin switched socket outlet SANS 164-1 & SANS 164-2, each rated at 16A,IP55	No 2
32	Hanger EE815 "or equal approved" 360 degrees Occupancy/Motion and Presence detection sensor 230V/16A/AC1 or similar approved by Principal Agent	No 15
<u>LUMINAIRES AND EQUIPMENT</u>		
<u>Luminaires or equipment complete with lamps, connection, including all switchgear, starters, ballasts, etc. All fittings to bear the SANS or SABS mark of compliance and mounted in position</u>		
33	20W LED round bulkhead light fitting rated at 7000Ma, Colour rendering: 4000k, Colour Black	No 25
<u>DISABLE TOILET EMERGENCY ALARM SYSTEM</u>		
34	Disable toilet alarm system complete, including ceiling pullcord, overdoor light, remote reset button with 12V power supply unit	Item
<u>SUNDRIES</u>		
35	Supply and install 1500mm SABS Grade A earth spike. Testing and commissioning of complete lighting protection system.	Item
<u>STRIPPING AND REMOVAL OF EXISTING ELECTRICAL INSTALLATION</u>		
36	Allow for the stripping and removal of existing light fittings, light switched, etc as per the above specification	Item
Carried Forward		R
Bill No. 14 Electrical Work (Provisional)		

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward		R
	<u>TESTING AND COMMISSIONING</u>		
37	Allow for testing, balancing and commissioning the complete electrical installation	Item	
	<u>BUDGETARY ALLOWANCE</u>		
38	Allow the NET Provisional Sum of R50,000.00 (Fifty Thousand Rand) for any unforeseen Electrical work not in specification above	Item	50,000.00
39	Add for profit on the above if required		%
40	Allow for attendance		%
	Carried to Summary		R
	Bill No. 14 Electrical Work (Provisional)		

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No	Quantity	Rate	Amount
<p><u>BILL No. 15</u></p> <p><u>MECHANICAL INSTALLATION</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The descriptions of items in this Bill is abbreviated descriptions of the work to be done and of the materials to be used, the tenderer are therefore referred to the full specifications attached to these bills of quantities for the full descriptions and complete specifications</p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works</p> <p><u>Schedule of information</u></p> <p>Tenderers are advised that information schedules are included with the project specifications. These schedules must be completed and submitted with the Tenders.</p> <p><u>Labelling and Colour Coding</u></p> <p>The cost of labelling and colour coding must be included within the prices of the respective items.</p> <p><u>Pricing schedule</u></p> <p>The pricing of schedule to be based on the exchange rate for Euro on the date of advertisement. Should currency vary on date of award this price will be adjusted accordingly</p>			
<p>Carried Forward</p>		R	
<p>Bill No. 15 Mechanical Installation</p>			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward			R
	<u>Wheelchair Platform Lift</u>			
1	<p>Supply and install a "Vimec" V-64 "or equal approved" rack & pinion wheelchair platform lifts with 300kg carrying capacity up to 45 degrees, 4m/min speed, 5000mm travel height, 2 stop, front & rear entrance. Control system 1 phase, 220V power supply and power consumption of 1.5Kw complying with SANS 1545-3 Large platform size 1050 x 770mm with emergency stop button. Stairlift shall be complete unit with guide rails (straight rails, rail length to be suitable for staircase comprising seventeen steps) With the following optionals: Protective cover, automated platform folding device, special size platform, sound signal for movement, blinking light signal, foldable seat, ,radio controls and retracting bars. Include labelling and nameplate according to SANS 1545-3. The wheelchair stair lift to be supplied as a package unit for installation, power supply shall be provided by others.</p>	No	1	
2	<p>Supply and install a "Vimec" V-65 "or equal approved" rack & pinion wheelchair platform stairlift or similar approved with 300kg carrying capacity minimum up to 45 degrees, 8m/m speed, 6500mm travel height, 2 stop, front & rear entrance . Control system 1 phase, 220V power supply and power consumption of 1.5Kw complying with SANS 1545 Large platform size 1050X770mm with emergency stop button. Stair lift shall be complete unit with guide rail (straight rails and two 90 degree internal turns), rail length to be suitable for staircase comprising 16 steps, landing 4780x2670 and again 5 steps. With the following optionals: Protective cover, automated platform folding device, special size platform, sound signal for movement, blinking light signal, intermediate stops, foldable seat, retracting bars that fit into actual body of the machine, and radio controls. Including labelling and nameplate according to SANS 1545-3.</p> <p>The wheelchair stair lift to be supplied as a package unit for installation. power supply by isolator shall be provided by others.</p>	No	1	
	Carried Forward			R
	<p>Bill No. 15 Mechanical Installation</p>			

	Brought Forward			R
	<u>Wheelchair Vertical Lift</u>			
3	<p>Supply and install E-10 "or equal approved" Vertical platform lift with 2-stop, 400kg capacity, speed of 0.15m/sec, 3400mm travel height. One front entrance. Power supply Inverter, 1phase, 220V and power consumption of 2.2Kw.</p> <p>Shaft construction, shaft size 1700mm x 1700mm with pit height 140mm and headroom height 2900mm, Structural steel tower by contractor.</p> <p>Machinery geared, MRI, belt drive. Including Electromechanical locks, counterweight guide rails, guides and attachment (machined T70-1a sections) with polyamide (T12) ropes/belts.</p> <p>Car size: 1170 x 1460 x 2000mm, Door opening dimension 900 x 2000mm and raw opening height 1240 x 2240mm</p> <p>Finishes: Walls: left wall-full glass, opposite rails - full glass and C.O.P wall-grey similinox, Ceiling: similinox finish with standard LED bar, Floor: safestep series floor finish, Entrance door: Automatic 2 panel side opening doors.</p> <p>Car operating panel (C.O.P) and signal elements consisting of I-Button, emergency stop button, machine activation key, overload sensor, square button for floor selection.</p> <p>Accessibility and safety Electromechanical locks - car door safety device, Alarm bell, elevator announcer, emergency intercom and automatic landing door locking with car emergency lighting, emergency battery drive, emergency power drive.</p> <p>The vertical lift to be supplied as a package unit for installation, power by isolator by others</p>	No	2	
	<u>Commissioning, Maintenance, etc</u>			
	All tests and certificates in SANS 145-4 annexures must be submitted by contractor and the lift registered by the Department of Labour before Practical Completion			
4	Allow for commissioning and testing of the wheel chair platform and vertical lifts installation		Item	
5	Allow for 12 month maintenance and guarantee of the installation		Item	
	Carried Forward			R
	Bill No. 15 Mechanical Installation			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward		R
6	Allow for providing operating and maintenance manuals	Item	
7	Allow for preparation of mechanical and electrical workshop drawings	Item	
8	Allow for instruction to Building Management on the operation of the installation	Item	
Carried to Summary			
Bill No. 15 Mechanical Installation			R

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<u>BILL No. 16</u>			
	<u>GLAZING</u>			
	<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6mm Clear safety glass:</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2		3
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 3			
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>4 mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
2	Mirror 400 x 600 mm high with four screws	No		7
	A : 0 B : 1 C : 1 D : 1			
	E : 2 F : 1 G : 0 H : 1			
	I : 0 J : 0 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
	Carried to Summary			
	Bill No. 16 Glazing		R	

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No	Quantity	Rate	Amount
<u>BILL No. 17</u>			
<u>PAINTWORK</u>			
<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<u>SABS Specifications</u>			
Matt or eggshell decorative paint for interior works : SABS 515			
High gloss enamel paint : SABS 630 Grade I			
Oil gloss enamel paint : SABS 631			
Primers for wood for external work : SABS 678 Type I			
Primers for wood for internal work : SABS 678 Type III			
Zink chromate primers for steel : SABS 679 Type I			
Undercoats for paints (except emulsion paint) : SABS 681 Type I			
Aluminium paint : SABS 682 Grade II			
Roof paints : SABS 683 Type B			
Structural steel paint : SABS 684 Type B			
Wash primer (metal etch) : SABS 723			
Varnish for interior use : SABS 887 Type I			
Emulsion paints : SABS 1586			
<u>PAINTWORK, ETC TO NEW WORK</u>			
<u>ON FLOATED PLASTER</u>			
Carried Forward			R
Bill No. 17 Paintwork			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward				R
4	On fascias and barge boards	m2	1		
	A: 0 B: 0 C: 0 D: 0				
	E: 0 F: 0 G: 0 H: 0				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 1				
	<u>ON WOOD</u>				
	<u>Prepare stop and apply, one undercoat and two coats "Velvaglio" interior quality polyurethane paint or equal approved:</u>				
5	On doors.	m2	31		
	A: 0 B: 4 C: 4 D: 4				
	E: 8 F: 4 G: 0 H: 4				
	I: 0 J: 0 K: 4 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
6	On door frames etc	m2	10		
	A: 0 B: 2 C: 2 D: 1				
	E: 2 F: 1 G: 0 H: 1				
	I: 0 J: 0 K: 2 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
7	On skirtings, rails, etc not exceeding 300 mm girth	m	9		
	A: 0 B: 4 C: 0 D: 0				
	E: 0 F: 3 G: 0 H: 2				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
	<u>ON METAL</u>				
	Carried Forward				R
	Bill No. 17 Paintwork				

DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES

		Brought Forward		R																							
	<p><u>Prepare stop and apply, one undercoat and two coats "Velvaglio" interior quality polyurethane paint or equal approved:</u></p>																										
11	On internal floated plaster walls.	m2	307																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 0</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 43</td> <td style="width: 25%;">D : 120</td> </tr> <tr> <td>E : 120</td> <td>F : 9</td> <td>G : 0</td> <td>H : 14</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 0</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 0</td> </tr> <tr> <td>U : 0</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 0	B : 0	C : 43	D : 120	E : 120	F : 9	G : 0	H : 14	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	P : 0	Q : 0	R : 0	S : 0	T : 0	U : 0	V : 0				
A : 0	B : 0	C : 43	D : 120																								
E : 120	F : 9	G : 0	H : 14																								
I : 0	J : 0	K : 0	L : 0																								
M : 0	N : 0	O : 0	P : 0																								
Q : 0	R : 0	S : 0	T : 0																								
U : 0	V : 0																										
	<p><u>Prepare and apply one undercoat and two coats "Wall & All" exterior quality emulsion paint "or equal approved":</u></p>																										
12	On external plastered walls.	m2	12																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 0</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 0</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 0</td> <td>F : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 0</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 0</td> </tr> <tr> <td>U : 0</td> <td>V : 12</td> <td></td> <td></td> </tr> </table>	A : 0	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	P : 0	Q : 0	R : 0	S : 0	T : 0	U : 0	V : 12				
A : 0	B : 0	C : 0	D : 0																								
E : 0	F : 0	G : 0	H : 0																								
I : 0	J : 0	K : 0	L : 0																								
M : 0	N : 0	O : 0	P : 0																								
Q : 0	R : 0	S : 0	T : 0																								
U : 0	V : 12																										
	<p><u>ON PLASTER BOARD</u></p>																										
	<p><u>One coat "Plascon Professional Plaster Primer (PP700)" or equal approved and two coats "Plascon Super Acrylic Matt (PEM900)" paint or equal approved</u></p>																										
13	On ceilings and cornices	m2	101																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 0</td> <td style="width: 25%;">B : 5</td> <td style="width: 25%;">C : 15</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 60</td> <td>F : 21</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 0</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 0</td> </tr> <tr> <td>U : 0</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 0	B : 5	C : 15	D : 0	E : 60	F : 21	G : 0	H : 0	I : 0	J : 0	K : 0	L : 0	M : 0	N : 0	O : 0	P : 0	Q : 0	R : 0	S : 0	T : 0	U : 0	V : 0				
A : 0	B : 5	C : 15	D : 0																								
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M : 0	N : 0	O : 0	P : 0																								
Q : 0	R : 0	S : 0	T : 0																								
U : 0	V : 0																										
	<p><u>ON WOOD</u></p>																										
	<p>Carried Forward</p>			R																							
	<p>Bill No. 17 Paintwork</p>																										

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

		Brought Forward			R
<p><u>Prepare stop and apply, one undercoat and two coats "Velvagio" interior quality polyurethane paint or equal approved:</u></p>					
14	On doors.	m2	21		
	A: 0 B: 4 C: 11 D: 0				
	E: 0 F: 4 G: 0 H: 3				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
15	On door frames etc	m2	3		
	A: 0 B: 0 C: 1 D: 0				
	E: 0 F: 1 G: 0 H: 1				
	I: 0 J: 0 K: 0 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
<p><u>ON METAL</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Battered or peeling paint shall be completely removed down to bare metal. Care is to be taken when rubbing down previously finished galvanized steelwork, not to damage or remove the galvanizing.</p> <p><u>Prepare, removing all rust to bright metal, spot priming bare metal surfaces with zinc chromate primer and apply one undercoat and two finishing coats enamel paint on previously painted steel in bad condition:</u></p>					
16	On gates, grilles, doors and screens	m2	11		
	A: 0 B: 0 C: 0 D: 0				
	E: 0 F: 0 G: 0 H: 0				
	I: 0 J: 0 K: 11 L: 0				
	M: 0 N: 0 O: 0 P: 0				
	Q: 0 R: 0 S: 0 T: 0				
	U: 0 V: 0				
<p>Carried to Summary</p>					
<p>Bill No. 17 Paintwork</p>				R	

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 18</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works- Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Clearing under fence</u></p> <p>Rates for fencing are to include for clearing and removing all rubbish and vegetable soil and substance for minimum width of 1000mm and preparation of ground under fence by excavating or filling so as to maintain a minimum gap between bottom of fence and ground</p> <p>Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services, likely to be damaged or interfered with by his activities. He shall obtain updated plans from the Engineer for this purpose, showing the position of services in the area where he intends to work. As services can often not be reliably located from such plans, the Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary in order to expose the services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.</p> <p><u>ROAD WORKS (ROADS, PARKING, ASSEMBLY AREA AND WALKWAYS)</u></p>			
	Carried Forward		R	
	Bill No. 18 External works			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward							
							R
<u>Taking out and removing, grubbing up roots and filling in holes</u>							
4	Tree exceeding 200mm and not exceeding 500mm girth		No	1			
	A: 0 B: 0 C: 0 D: 0						
	E: 0 F: 0 G: 0 H: 0						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 1 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>							
<u>Open face excavation in earth over sloping site</u>							
5	Open face excavation		m3	89			
	A: 21 B: 0 C: 0 D: 0						
	E: 0 F: 0 G: 0 H: 0						
	I: 0 J: 0 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 21						
	Q: 0 R: 0 S: 0 T: 16						
	U: 32 V: 0						
<u>Excavation in earth not exceeding 2m deep</u>							
6	Reduce levels under floors		m3	41			
	A: 0 B: 0 C: 0 D: 0						
	E: 0 F: 0 G: 0 H: 0						
	I: 0 J: 41 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
7	Trenches		m3	1			
	A: 0 B: 0 C: 0 D: 0						
	E: 0 F: 0 G: 0 H: 0						
	I: 0 J: 1 K: 0 L: 0						
	M: 0 N: 0 O: 0 P: 0						
	Q: 0 R: 0 S: 0 T: 0						
	U: 0 V: 0						
Carried Forward							R
Bill No. 18 External works							

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Brought Forward									
									R
<u>Extra over trench and hole soft excavations for</u>									
8	Intermediate excavation			m3	1				
	A: 0	B: 0	C: 0	D: 0					
	E: 0	F: 0	G: 0	H: 0					
	I: 0	J: 1	K: 0	L: 0					
	M: 0	N: 0	O: 0	P: 0					
	Q: 0	R: 0	S: 0	T: 0					
	U: 0	V: 0							
9	Hard rock excavation			m3	2				
	A: 0	B: 0	C: 0	D: 0					
	E: 0	F: 0	G: 0	H: 0					
	I: 0	J: 2	K: 0	L: 0					
	M: 0	N: 0	O: 0	P: 0					
	Q: 0	R: 0	S: 0	T: 0					
	U: 0	V: 0							
<u>Extra over all excavations for carting away</u>									
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor			m3	127				
	A: 18	B: 0	C: 0	D: 0					
	E: 0	F: 0	G: 0	H: 0					
	I: 0	J: 41	K: 0	L: 0					
	M: 0	N: 0	O: 0	P: 21					
	Q: 0	R: 0	S: 0	T: 16					
	U: 32	V: 0							
<u>Risk of collapse of excavations</u>									
11	Sides of trench and hole excavations not exceeding 1,5m deep			m2	81				
	A: 15	B: 0	C: 0	D: 0					
	E: 0	F: 0	G: 0	H: 0					
	I: 0	J: 28	K: 0	L: 0					
	M: 0	N: 0	O: 0	P: 12					
	Q: 0	R: 0	S: 0	T: 6					
	U: 20	V: 0							
Carried Forward									R
Bill No. 18 External works									

Brought Forward									
									R
	<u>Keeping excavations free from water</u>								
12	Keeping excavations free from mud and all water other than from subterranean sources				Item				
	A : 0.00	B : 0.00	C : 0.00	D : 0.00					
	E : 0.00	F : 0.00	G : 0.00	H : 0.00					
	I : 0.00	J : 1.00	K : 0.00	L : 0.00					
	M : 0.00	N : 0.00	O : 0.00	P : 0.00					
	Q : 0.00	R : 0.00	S : 0.00	T : 0.00					
	U : 0.00	V : 0.00							
	<u>FILLING, ETC</u>								
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>								
13	Under floors, etc				m3	2			
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 2	K : 0	L : 0					
	M : 0	N : 0	O : 0	P : 0					
	Q : 0	R : 0	S : 0	T : 0					
	U : 0	V : 0							
14	Backfilling to trenches, holes, etc				m3	1			
	A : 0	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 1	K : 0	L : 0					
	M : 0	N : 0	O : 0	P : 0					
	Q : 0	R : 0	S : 0	T : 0					
	U : 0	V : 0							
	<u>Earth filling G5 supplied by the contractor compacted to 95% Mod AASHTO density</u>								
15	Gravel G5 sub-base course in 150mm layers				m3	2			
	A : 2	B : 0	C : 0	D : 0					
	E : 0	F : 0	G : 0	H : 0					
	I : 0	J : 0	K : 0	L : 0					
	M : 0	N : 0	O : 0	P : 0					
	Q : 0	R : 0	S : 0	T : 0					
	U : 0	V : 0							
	Carried Forward								R
Bill No. 18									
External works									

DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES

		Brought Forward		R
		<u>Earth filling G3 supplied by the contractor compacted to 98% Mod AASHTO density</u>		
16	Under floors, etc	m3	1	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 1 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
		<u>Earth filling supplied by the Contractor compacted to 98% Mod AASHTO density</u>		
17	Gravel G2 base course in 150mm layers finished to falls and cross falls	m3	119	
	A : 14 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 51 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 18			
	Q : 0 R : 0 S : 0 T : 16			
	U : 20 V : 0			
		<u>Course river sand filling supplied by the contractor compacted in 150mm layers to 95% Mod AASHTO density</u>		
18	50mm thick dry, clean, washed riversand layer evenly spread over filling (elsewhere), leveled, watered and rammed to receive waterproof membrane (elsewhere) under solid floors.	m2	6	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0 H : 0			
	I : 0 J : 6 K : 0 L : 0			
	M : 0 N : 0 O : 0 P : 0			
	Q : 0 R : 0 S : 0 T : 0			
	U : 0 V : 0			
		Carried Forward		R
Bill No. 18 External works				

		Brought Forward		R																							
<u>Compaction of surfaces</u>																											
19	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	540																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 69</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 0</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 0</td> <td>F : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 198</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 90</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 81</td> </tr> <tr> <td>U : 102</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 69	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 198	K : 0	L : 0	M : 0	N : 0	O : 0	P : 90	Q : 0	R : 0	S : 0	T : 81	U : 102	V : 0				
A : 69	B : 0	C : 0	D : 0																								
E : 0	F : 0	G : 0	H : 0																								
I : 0	J : 198	K : 0	L : 0																								
M : 0	N : 0	O : 0	P : 90																								
Q : 0	R : 0	S : 0	T : 81																								
U : 102	V : 0																										
<u>PROTECTION AGAINST TERMITES</u>																											
<u>Soil insecticide</u>																											
20	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m2	591																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 69</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 0</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 0</td> <td>F : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 249</td> <td>K : 0</td> <td>L : 0</td> </tr> <tr> <td>M : 0</td> <td>N : 0</td> <td>O : 0</td> <td>P : 90</td> </tr> <tr> <td>Q : 0</td> <td>R : 0</td> <td>S : 0</td> <td>T : 81</td> </tr> <tr> <td>U : 102</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 69	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 249	K : 0	L : 0	M : 0	N : 0	O : 0	P : 90	Q : 0	R : 0	S : 0	T : 81	U : 102	V : 0				
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<u>Primer</u>																											
21	MC30 primer over ground or filling at a spread rate of 0.7 litre per square metre	m2	131																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">A : 23</td> <td style="width: 25%;">B : 0</td> <td style="width: 25%;">C : 0</td> <td style="width: 25%;">D : 0</td> </tr> <tr> <td>E : 0</td> <td>F : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>J : 0</td> <td>K : 0</td> <td>L : 5</td> </tr> <tr> <td>M : 8</td> <td>N : 2</td> <td>O : 0</td> <td>P : 0</td> </tr> <tr> <td>Q : 4</td> <td>R : 4</td> <td>S : 3</td> <td>T : 81</td> </tr> <tr> <td>U : 0</td> <td>V : 0</td> <td></td> <td></td> </tr> </table>	A : 23	B : 0	C : 0	D : 0	E : 0	F : 0	G : 0	H : 0	I : 0	J : 0	K : 0	L : 5	M : 8	N : 2	O : 0	P : 0	Q : 4	R : 4	S : 3	T : 81	U : 0	V : 0				
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		Carried Forward		R																							
Bill No. 18 External works																											

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward				
28	63.5 x63.5 x 2.0mm flat closed cap A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 2 V : 0 <u>0.6mm gauge "chromadek" of equal approce with screened symbol as indicated with standard grey on reverse side, four times drilled for and screwed with galvanised M6 verandah bolts to steel angles</u>	No	3		R
29	300 x 300mm " disabled sign" with white border and pictogramme and dark green background A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 2 V : 0	No	3		
30	300 x 300mm " parking sign" with white border and pictogramme and dark green background A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 H : 0 I : 0 J : 0 K : 0 L : 0 M : 0 N : 0 O : 0 P : 0 Q : 0 R : 0 S : 0 T : 0 U : 2 V : 0	No	3		
	Carried to Summary				R
	Bill No. 18 External works				

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 19</u></p> <p><u>PROVISIONAL SUMS</u></p> <p>All provisional sums cover supply of material and equipment and installation. Provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value-Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary</p> <p><u>General</u></p> <p>Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement</p> <p><u>Special attendance on nominated/selected subcontractors</u></p> <p>Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, craneage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
	Carried Forward		R	
	Bill No. 19 Provisional Sums			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILITY FOR PERSONS WITH DISABILITIES**

	Brought Forward		R	
	<u>Note:</u>			
	The following sums shall be allowed in respect of the items listed below. These sums shall be used as directed by the Engineer/Architect and deducted in whole or in part if not required			
	<u>FIRE DETECTION SYSTEM</u>			
1	Allow the Provisional Sum of R 150,000.00 for testing the existing Fire Detection System, replacing faulty components, adding new components, replace all wiring with fire retardant cabling including conduits & accessories and linking the new installation with the existing system. (PS includes cleaning of existing components that can be re-used and stripping and removing faulty components) After installation: Testing, balancing and commissioning, Issuing of COC's, allowance for 12months maintenance and guarantee, workshops and as-built drawings, operating and maintenance manuals, Training of user-department staff	Item		150,000.00
2	Add for profit		%	
3	Allow for general attendance		%	
	Carried to Summary		R	
	Bill No. 19 Provisional Sums			

**DEPARTMENT OF DEFENCE: OUDTSHOORN MILITARY BASE
ACCESSIBILTY FOR PERSONS WITH DISABILITIES**

Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	37	
2	Alterations	53	
3	Earthworks	59	
4	Concrete, formwork and reinforcement	64	
5	Masonry	69	
6	Waterproofing	71	
7	Carpentry & Joinery	78	
8	Ceilings, Partitions And Access Flooring	80	
9	Ironmongery	89	
10	Metalwork	94	
11	Plastering	98	
12	Tiling	101	
13	Plumbing and Drainage	115	
14	Electrical Work (Provisional)	121	
15	Mechanical Installation	125	
16	Glazing	126	
17	Paintwork	132	
18	External works	142	
19	Provisional Sums	144	
	Sub-Total		R
	Value Added Tax		R
	Carried to Form of Offer and Acceptance (DPW 07)		R



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

Tender No: CPT 1001/22

Part C3: Scope of Work

C3.1 Scope of Work



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

SCOPE OF WORK & SPECIFICATIONS PROJECT SPECIFIC. PG-01.2 (EC)

PG-01.2 (EC) SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)

Project title:	WESTERN CAPE- OUDTSHOORN SANDF: INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES		
Tender / Quotation no:	CPT 1001/22	Reference no:	

C3. Scope of Works

WESTERN CAPE- OUDTSHOORN SANDF: INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES

C3.1 EXTENT OF THE WORKS

WESTERN CAPE- OUDTSHOORN SANDF: INSTALLATION OF FACILITIES FOR PEOPLE WITH DISABILITIES

C3.2 ORDER OF THE WORKS

No order of the works.

C3.3 BUILDINGS OCCUPIED

Oudtshoorn Army Infantry school

C3.4 ACCESS

As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, Government Gazette No. 42021 of 9 November 2018.

C3.5 STANDARD MINIMUM REQUIREMENTS

In terms of section 5(2) of the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000) (the Act), the Construction Industry Development Board is empowered to establish and promote best practice standards, Standard Requirements and Guidelines which includes the following but not limited to:

C3.5.1 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011

C3.5.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013

C3.5.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013

C3.5.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017

C3.5.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017

- C3.5.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018
- C3.5.8 cidb Standard for Developing Skills through Infrastructure Contracts, No. 43495 Government Gazette, 3 July 2020

C3.6 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as indicated below. Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained:

C3.6.1 Minimum Thirty Percent (30%) Mandatory Sub-contracting Contract Participation Goal

MINIMUM THIRTY PERCENT (30%) MANDATORY SUBCONTRACTING TO SMMEs: IMPLEMENTATION OF PREFERENTIAL PROCUREMENT REGULATIONS 2017

30% Mandatory subcontracting is *not applicable* to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprises (SMME's) in executing this contract, irrespective whether the thirty percent (30%) Participation Goal is applicable or not.

The thirty percent (30%) mandatory Sub-contracting shall be achieved in the execution of the contract in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017.

- (a) SMME's involvement of at least **five percent (5%)** of the tender amount at the time of tender to be sourced from within **50km** radius of the project site with the intention to maximize use of local SMMEs within "Insert Ward/s, Municipal District, Town, City, Province",
- (b) SMME's involvement of at least **twenty five percent (25%)** of the Tender Value to be sourced from within **250km** radius of the project site.

Bidders are cautioned not to under-price items earmarked to be executed by SMMEs as adjustment to too low rates will not be entertained by the Employer.

Bidders to sub-contract a minimum of thirty percent (30%) of the tender amount including VAT at the time of tender (All inclusive, Including VAT). to any one or more of the following categories:

- a. An EME or QSE
- b. An EME or QSE which is at least 51% owned by black people
- c. An EME or QSE which is at least 51% owned by black people who are youth
- d. An EME or QSE which is at least 51% owned by black people who are women
- e. An EME or QSE which is at least 51% owned by black people with disabilities
- f. An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships
- g. A co-operative which is at least 51% owned by black people
- h. An EME or QSE which is at least 51% owned by black people who are Military veterans
- i. More than one of the categories referred to in paragraphs (a) to (h).

Bidders to refer to the CSD for a list of prospective sub-contractors provided with the tender. The bidder may refer to the CSD website should the list provided be insufficient.

Bidders must ensure that the sub-contractors conform to the following:

- a. Possess relevant accreditation where applicable;
- b. Be registered with relevant bodies (CIDB, various Councils, etc.) where applicable;
- c. Possess necessary capabilities to deliver the sub-contracted work;
- d. Meet the requirements in terms of the stipulated designated groups; and
- e. Geographical located at the place where the project will be delivered. Geographical location must be determined using the following criteria:
 - Relevant Ward. If not available;
 - Relevant neighbouring Wards. If not available;
 - Relevant Local Municipality. If not available;
 - Relevant District Municipality. If not available;
 - Relevant Metro. If not available;
 - Relevant Province. If not available;
 - Relevant Neighbouring Province. And If not available;
 - Anywhere within the borders of South Africa .

It is the bidder's responsibility to source alternative SMMEs should the parties with whom agreements were entered into at the time of tendering either no longer exist or do not perform or render work of an acceptable standard, subject to the approval by the Employer. Failure to achieve the minimum thirty percent (30%) SMME participation based on the tender amount including VAT, will result in a two percent (2%) penalty on the amount of work on which there is no compliance (Excluding VAT), unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.2 Minimum Targeted Local Material Manufacturer Contract Participation Goal

The Minimum Targeted Local Building Material Manufacturers CPG is not applicable to this project

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Manufacturers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020.

A Targeted Local Material Manufacturer is a targeted enterprise that operates or maintains a factory or establishment that produces on its premises materials or goods required by the principal contractor for the performance of the contract.

Note: Adapted from SANS 10845-7:2015, definition 2.13

Preference shall be given to the Targeted Local Material Manufacturer in Western Cape Province and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non-availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least two percent (2%) of the total value of materials purchased including VAT to be sourced from within 50km radius of the project site,
- (e) Material of at least eight percent (8%) of the total value of materials purchased including VAT to be sourced from within 250km radius of the project site.

Failure to achieve the minimum **ten percent (10%)** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **two percent (2%)** penalty of the prorated targeted value of materials not complied with unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Example: Total material to be purchased from local manufacturers = R 10 Million and only achieved a R8 Million CPG then the penalty = R2 Million x 2%. The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.3 Minimum Targeted Local Building Material Suppliers Contract Participation Goal

The Minimum Targeted Local Building Material Suppliers CPG is not applicable to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Suppliers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

A targeted supplier is a targeted enterprise that

- a) owns, operates or maintains a store, warehouse or other establishment in which goods are bought, kept in stock and regularly sold to wholesalers, retailers or the public in the usual course of business; and
- b) engages, as its principal business and in its own name, in the purchase and sale of goods.

Note: Adapted from SANS 10845-7:2015, definition 2.14

Preference shall be given to the local material suppliers in the **Western Cape Province**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **2%** of the total value of materials purchased including VAT to be sourced from within **50km** of the project site,
- (e) Material of at least **8%** of the total value of materials purchased including VAT to be sourced from within **250km** of the project site.

Failure to achieve the minimum **ten percent (10%)** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **two percent (2%)** penalty of the prorated targeted value of materials not complied with, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Example: Total material to be purchased from local manufacturers = R 10 Million and only achieved a R8 Million CPG then the penalty = R2 Million x 2%. The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.4 Minimum Targeted Local Labour Skills Development Contract Participation Goal

The Minimum Targeted Local Labour Skills Development CPG is *not applicable* to this project.

It is the requirement of the employer that the contractor enhances the use of local labour in executing this contract. This is required to be done through the use of both traditional building techniques and labour-intensive construction techniques careful and considered construction planning and implemented in the project irrespective whether a minimum percentage Participation Goal is applicable or not.

The Minimum Targeted Local Skills Development Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

Targeted labour: individuals who:

- a) are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract;
- b) are defined as the target group in the targeting data; and
- c) permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area.

Adapted from SANS 10845-7:2015, definition 2.12

Targeting of labour by skills categories is only permissible within categories of semi-skilled and unskilled labour.

Contract participation goals for semi-skilled and unskilled labour shall be limited to on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract and in a manner that does not compromise worker health and safety. In the case of targeted labour, the certification of records shall be in accordance with SANS 10845-8.

Beneficiaries will be sourced from the “Insert Ward/s, Municipal District, Town, City, Province”. The contractor shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the Participation Goal will result in a thirty percent (30%) penalty of the total labour cost based on labour rates per day of the number of working days not achieved, excluding VAT, for noncompliance, unless the contractor can prove to the Employer’s satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer’s Representative.

C3.6.5 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract Participation Goal

The Minimum Targeted Enterprise Development CPG is not applicable to this project.

The aim of this best practice standard for indirect targeting for enterprise development in accordance with the Standard for Indirect Targeting for Enterprise Development (published in Government Gazette 36190 of 25 February 2013), as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. is to promote enterprise development by providing for a minimum contract participation goal (CPG) of five percent (5%) of the contract amount as defined in the Standard (Tender amount, excluding allowances and VAT on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors that are also to be beneficiaries of enterprise development support from the main contractor.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer’s Representative.

The contractor shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the Participation Goal will result in A) a thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The lead partner or main contractor shall dedicate a minimum five percent (5%) of total project value to provide developmental support to targeted subcontractor or joint venture partner applicable to contracts in Grades 7 to 9, General Building and Civil Engineering contracts.

Provision for pricing of compliance with the aforementioned is made in the preliminaries and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained.

C3.6.5.1 Criteria

The main or lead partner of the successful bidder shall:

- (a) There must be a needs analysis for indirect targeting and development or skill standard and should be development in at least any two developmental areas namely;
 - Administrative and cost control systems
 - construction management systems and plans
 - planning, tendering and programming
 - business; technical; procurement skills
 - legal compliance
 - credit rating/history; financial loan capacity/history
 - contractual knowledge
- (b) The above needs analysis shall be mutually agreed upon between contractor and targeted enterprise
- (c) The contractor shall appoint an enterprise development coordinator to:
 - perform needs analysis on the targeted enterprise to identify developmental goals
 - develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas
 - provide internal mentorship support to improve the targeted enterprise/s performance
 - monitor and submit to the employer's representative a monthly enterprise development report thereby reporting on the progress of the agreed development areas with the targeted enterprise/s
 - submit a project completion report to the Employer's representative for each targeted enterprise.

C3.6.5.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

C3.6.5.3 Competence Criteria for an Enterprise Development Co-ordinator

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management

C3.6.5.4 Format of Communications

The contractor shall submit to the Employer's Representative:

- *Project interim reports* in the specified format (**ED105P**) detailing interim values of the CPG that was achieved together with an assessment of the enterprise development support provided should be tabled and discussed at least monthly at progress meetings between employer's representative and the contractor;
- *Project completion report* in the specified format (**ED101P**) to the Employer's Representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or of the joint venture entered into; and the participation parameter
- *Enterprise development declaration* (**ED104P**).

C3.6.5.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

C3.6.5.6 Management Meetings

The contractor shall report to the Employer's Representative on the implementation and progress of the targeted enterprise development and CPG at monthly progress site meetings.

C3.6.5.7 Forms for contract administration

The contractor shall submit to the Employer's Representative the following proformas:

- Form ED 105P Project Interim Report
- Form ED 104P Enterprise Development Declaration
- Form ED 101P Project Completion Report

C3.6.5.8 Records

The contractor shall:

- keep records of the targeted enterprise development
- keep records of the payments made to the targeted enterprises in relation to the CPG.
- ensure all the documentation required in terms of the Standard is provided with each monthly progress payment certificate and according to a prescribed format where applicable.

C3.6.5.9 Payment Certificates

The contractor shall:

- achieve the measurable CPG and providing enterprise development support to the targeted enterprise/s as per the Standard.
- submit payment certificates to the Employer Representative at intervals determined in the Contract.

C3.6.5.10 Compliance requirements

Non-compliance with the Best Practice Project Assessment Scheme

The wording of regulation 27A of the cidb regulations makes provision for the Board to enforce the cidb code of conduct in the event of clients being found to be in breach of the best practice project assessment scheme.

- Not including the requirements of the cidb standards in the conditions of tender
- Not registering the award of contract on the cidb Register of Projects (RoP)
- Not reporting practical completion on the cidb Register of Projects (RoP)

3.6.6 CIDB BUILD PROGRAMME: Minimum Targeted Contract Skills Development Goal (CSDG)

The Minimum Targeted Contract Skills Development CPG is *not applicable* to this project.

The contractor shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a thirty percent (30%) penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, counter-signed by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

C3.6.6.1 Methodology

The contractor shall achieve the measurable contract skills development goal by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the following in relation to work directly related to the contract or order:

Method 1: structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification;

Method 2: structured workplace learning opportunities for apprentices or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012) subject to at least sixty percent (60%) of the artisan learners being holders of public TVET college qualifications;

Method 3: work integrated learning opportunities for University of Technology or Comprehensive University students completing their national diplomas;

Method 4: structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council listed in Table 1 above.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works.

Table 2: Contracting skills development goals for different classes of engineering and construction works contracts

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

Table 3: Notional Cost of Training per Headcount

Source: cidb Standard for Skills Development

Type of Training Opportunity	Provision for stipends (Unemployed learners only)	Provisions for mentorship	Provisions for additional costs*	Total costs	
				Unemployed learners	Employed learners
Method 1					
Occupational qualification	R7 000	R0	R9 000	R16 000	R9 000
Method 2					
TVET College graduates	R14 000	R0	R9 000	R23 000	N/A
Apprenticeship	R14 000	R0	R12 000	R26 000	R12 000
Method 3					
P1 and P2 learners	R24 000	R20 000	R4 500	R48 500	N/A
Method 4					
Candidates with a 3 year diploma	R37 000	R20 000	R4 500	R61 500	R20 000
Candidates with 4 year qualification	R47 000	R20 000	R4 500	R71 500	R20 000

Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a re-measurable item.

- The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- The successful contractor must employ at least sixty percent (60%) of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- The successful contractor shall employ at least (insert percentage number) from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) in the employment of the employer.

- (d) The successful contractor shall ensure that no single method shall contribute more than seventy five percent (75%) of the CSDG for the contract.
- (e) The successful contractor may only place thirty three percent (33%) employed employees or that of his subcontractors contributing to the CSDG.
- (f) The contractor shall employ at least sixty percent (60%) of the learners from a Public FET / TVET college should the contractor select to have trade qualification learners (Method 2) contributing to the CSDG.
- (g) One of the objectives of the project is to train (Insert number) Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates (Delete that which is not applicable).

C3.6.6.2 Management

- (a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' (delete that which is not applicable) progress, site attendance, hours worked and other relevant information as required by the Standard.
- (b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.
- (c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates (delete that which is not applicable).
- (d) The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates (delete that which is not applicable) within 30 days of start of the contract.
- (e) The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate (delete that which is not applicable) every three months.
- (f) The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) within 30 days of start of the contract.
- (g) The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.
- (h) The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) with the monthly invoice for the payment certificate.
- (i) The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable).
- (j) The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable).

- (k) The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) at the start of their employment on site.
- (l) Based on the agreed skills methods the contractor may employ part/full Occupational Qualification Learners and /or Trade Qualification Learners and/or Work Integrated Learners and/or Candidates (delete that which is not applicable) directly or through a Skills Development Agency (SDA), training provider or skills development facilitator (Form A1 - List of cidb accredited SDAs). The contractor shall ensure that no more than one Method shall be applied to any individual concurrently in the calculation of the CSDG for the contract.

C3.6.7 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

The National Youth Service Training and Development Programme is *not applicable* to this project.

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. Monthly reports are to be submitted to the Employer's Representative.

Failure by the contractors to achieve the specified number to be trained in the NYS section of the CPG section within the Bills of quantities will result in a Payment reduction as per bill of quantities per person, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

C3.6.8 LABOUR-INTENSIVE WORKS

Labour Intensive Works is *applicable* to this project.

Where labour intensive work is specified in the Bill of Qualities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

Failure by the contractor to achieve the specified value of the Labour Intensive Participation Goal as stipulated within the Bills of quantities will result in a thirty percent (30%) penalty of the value of the works not done by means of labour intensive methods, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Employer's objectives:

The employer's objectives are to deliver public infrastructure using labor-intensive methods in accordance with EPWP Guidelines.

Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1

C3.6.8.1 GENERIC LABOUR-INTENSIVE SPECIFICATION