

Item No		Quantity	Rate	Amount
<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARY AND GENERAL</u></p>				
<p><u>PRELIMINARY AND GENERAL (Applicable to the whole of the Works)</u></p>				
1	Project director (G1).		SUM	
2	Contracts manager (G2).		SUM	
3	Cost controller (G3).		SUM	
4	Supervisory staff other than those identified in items G1 to G3 (G4).		SUM	
5	Support staff not included in activities in the Activity Schedule or items G1 to G4 (G5).		SUM	
6	Health and safety compliance services (G6).		SUM	
7	Site transport (G7).		SUM	
8	Site accommodation and facilities (G8).		SUM	
9	Site toilets (G9).		SUM	
10	Site security (G10).		SUM	
11	Clean site and remove rubble (G11).		SUM	
12	Site surveys (G12).		SUM	
13	Health and safety (G13).		SUM	
14	Water (G14).		SUM	
<p>Carried to Collection</p>			R	
<p>Section No. 1 Bill No. 1 Preliminaries</p>				

15	Power (G15).		SUM	
16	Notice boards (G16).		SUM	
17	Site fencing and gates (G17).		SUM	
18	Hoarding requirements (G18).		SUM	
19	Scaffolding (G19).		SUM	
20	Equipment not included in the bill of quantities included elsewhere in the Preliminary and General Items (specify) (G20).		SUM	
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

Section No. 1 Bill No. 1 Preliminaries				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 1		Amount	
	2			
Section No. 1 Bill No. 1 Preliminaries			R	

Carried to Final Summary

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p>TENDERERS ARE TO NOTE THAT ALL WORK IS TO BE EXECUTED IN EXISTING BUILDINGS IN A COMBINATION OF NEW WORK, WORK IN PATCHES AND WORK IN SMALL QUANTITIES.</p> <p><u>Site inspection</u></p> <p>The Tenderer is advised to visit the site, inspect the existing premises and acquaint himself thoroughly with the nature of the work specified.</p> <p><u>Sizes and dimensions</u></p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>No allowance for overbreak has been made to any of the adjoining structures, walls, finishes, etc., where removals or pockets occur (the nett opening size, etc., has been made good in later items of this bill where such making good has not been included with the item) and the Contractor must allow in his prices for making good any overbreak that may occur.</p> <p><u>Materials</u></p> <p>Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor.</p>			
	Carried to Collection		R	
	Section No. 2 Bill No. 1 Alterations			

<p>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p>	<p>None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p>	<p>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p>	<p><u>General</u></p>	<p>All new finishes are measured in the relevant trades for new work.</p>	<p>Allow for watering the works sufficiently to prevent nuisance from dust.</p>	<p>All alteration works described hereunder shall imply the use of an approved screed or plaster repairing compound and preparing existing surfaces to receive new.</p>	<p>Provide all necessary propping, etc., required to ensure the safety and stability of the structure during the contract period and remove at completion.</p>	<p>Carried to Collection</p>	<p>R</p>	<p>Section No. 2 Bill No. 1 Alterations</p>

<p>Provide all necessary additional barricades, screens, overhead protections, etc., required to ensure the safety of persons, property, etc., and remove at completion.</p> <p>All alteration work is within an existing facility. The contractor shall take utmost care to minimise damage to existing completed works in the vicinity of the alteration works.</p>			
<p><u>REMOVAL OF EXISTING WORK</u></p>			
<p><u>Break down and remove brickwork, etc.:</u></p>			
<p>1 One brick wall.</p>	<p>m2</p>	<p>15</p>	
<p><u>Take out and remove doors, windows, etc. including thresholds, sills, etc. (building up openings elsewhere).</u></p>			
<p>2 Double leaf door and frame unit size overall 1511 x 2032mm high from one brick wall.</p>	<p>No</p>	<p>6</p>	
<p><u>Take down and remove roofs, floors, panelling, ceilings, partitions, etc:</u></p>			
<p>3 Suspended ceilings including suspension grid, hangers, etc.</p>	<p>m2</p>	<p>399</p>	
<p>4 Drywall partitioning system 2880mm high including all aluminium tracks, studs, wall boarding, doors, ironmongery, windows, etc.</p>	<p>m</p>	<p>127</p>	
<p><u>Carefully take out and remove sundry joinery work and handover to Client:</u></p>			
<p>5 Timber workbenches 760mm wide x 900mm high fixed to floor including disconnecting all services.</p>	<p>m</p>	<p>14</p>	
<p>6 Timber workbenches 550mm wide x 900mm high fixed to floor including disconnecting all services.</p>	<p>m</p>	<p>29</p>	
<p style="text-align: center;">Carried to Collection</p>			
<p>Section No. 2 Bill No. 1 Alterations</p>			<p style="text-align: center;">R</p>

7	Timber shelf unit size overall 1500mm long x 450mm wide x 2020mm high fixed to floor and wall (C14).	No	2		
8	Timber shelf unit size overall 1500mm long x 300mm wide x 200mm high fixed to wall (C9).	No	2		
9	Timber shelf unit size overall 1200mm long x 300mm wide x 1200mm high fixed to wall (C7).	No	1		
10	Timber shelf unit size overall 1000mm long x 300mm wide x 1200mm high fixed to timber counter top (C4).	No	15		
11	Timber shelf unit size overall 1000mm long x 280mm wide x 750mm high fixed to wall (C20).	No	3		
12	Timber shelf unit size overall 590mm long x 365mm wide x 850mm high fixed to floor (C5).	No	2		
13	Timber shelf unit size overall 500mm long x 300mm wide x 200mm high fixed to wall (C13).	No	1		
14	Timber pigeon hole shelving unit size overall 700mm long x 350mm wide x 750mm high fixed to wall (C11).	No	1		
15	Timber cupboard size overall 640mm long x 300mm wide x 2100mm high fixed to floor (C24).	No	4		
16	Timber cupboard size overall 595mm long x 395mm wide x 2145mm high fixed to floor (C16).	No	1		
17	Glazed timber cabinet size overall 1000mm long x 300mm wide x 1200mm high fixed to floor and wall (C8).	No	3		
18	Glazed timber cabinet size overall 1000mm long x 300mm wide x 1000mm high fixed to wall (C23).	No	3		
19	Glazed timber cabinet size overall 1000mm long x 300mm wide x 750mm high fixed to floor and wall (C12).	No	1		
Carried to Collection					
Section No. 2					
Bill No. 1					
Alterations					
				R	

20	Glazed timber cabinet size overall 1000mm long x 280mm wide x 745mm high fixed to wall (C15).	No	7		
21	Timber weighing table with concrete cladding size overall 1000mm long x 700mm wide x 900mm high fixed to floor (C6).	No	2		
	<u>Carefully take out and remove sundry metalwork and handover to Client:</u>				
22	Steel shelf unit size overall 500mm long x 200mm wide x 200mm high fixed to wall (C19).	No	1		
23	Steel locker size overall 300mm long x 600mm wide x 2000mm high fixed to floor (C10).	No	9		
24	Steel cupboard size overall 1430mm long x 800mm wide x 2020mm high fixed to floor (C17).	No	1		
25	Steel cupboard size overall 1000mm long x 550mm wide x 700mm high fixed to floor (C21).	No	4		
26	Steel cupboard size overall 1000mm long x 520mm wide x 850mm high fixed to floor (C1 & C25).	No	9		
27	Steel cupboard size overall 500mm long x 520mm wide x 850mm high fixed to floor (C3).	No	12		
28	Glazed steel cabinet size overall 1440mm long x 340mm wide x 2020mm high fixed to floor (C18).	No	1		
29	Steel drawer unit size overall 495mm long x 550mm wide x 700mm high fixed to floor (C22).	No	4		
30	Steel drawer unit size overall 495mm long x 520mm wide x 850mm high fixed to floor (C2 & C26).	No	11		
	<u>Take up and remove floor coverings, wall linings, etc.:</u>				
31	Vinyl floor covering including preparing screed to receive new floor finish.	m2	384		
	Carried to Collection				
	Section No. 2 Bill No. 1 Alterations				

32	Vinyl wall covering including preparing drywall partition to receive new wall finish.	m2	24		
33	Bitumen adhesive from screed including preparing screed to receive new floor finish, scabbling, etc.	m2	384		
	<u>Hack up/off and remove wall and floor tiles including preparing surface to receive new wall finishes:</u>				
34	Ceramic tiles to walls.	m2	185		
35	Ceramic tiles to floors.	m2	15		
	<u>Take out and remove sanitary fittings, piping, etc. including disconnecting piping from fittings and making good floor and wall finishes (making good filing and paintwork elsewhere):</u>				
36	25mm Diameter copper piping including fittings and brackets.	m	30		
37	100mm Diameter uPVC piping including fittings, brackets, etc.	m	3		
38	Laboratory sink with ceramic gulley trap, brackets, taps, etc. and all necessary piping, etc.	No	10		
39	Single bowl sink with brackets, taps, etc. and all necessary piping, etc.	No	1		
40	Double bowl sink with brackets, taps, etc. and all necessary piping, etc.	No	1		
41	Scrub sink with brackets, taps, etc. and all necessary piping, etc.	No	1		
42	Slop hopper with brackets, taps, etc. and all necessary piping, etc.	No	1		
43	Water closet suite with brackets, taps, etc. and all necessary piping, etc.	No	2		
	Carried to Collection				
	Section No. 2 Bill No. 1 Alterations			R	

44	Wash hand basin with brackets, taps, etc. and all necessary piping, etc.	No	1		
45	Eye wash safety shower and all necessary piping, stop cocks, valves, etc.	No	1		
<u>BUILD UP OPENINGS</u>					
<u>Brickwork in SABS approved NFP bricks in class II mortar in building up opening in:</u>					
46	One brick walls.	m2	4		
<u>MAKE GOOD FINISHES, ETC.</u>					
<u>Make good internal granolithic, screed, plaster, etc. to match existing to receive new finish:</u>					
47	Floors in patches.	m2	5		
48	Walls in patches.	m2	5		
Carried to Collection					
Section No. 2 Bill No. 1 Alterations				R	

Section No. 2 Bill No. 1 Alterations				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 4		Amount	
	5		-----	
	6		-----	
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	8		-----	
	9		-----	
	10		-----	
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p>			R	
Section No. 2 Bill No. 1 Alterations				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>MASONRY</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>BRICKWORK IN SUPERSTRUCTURE</u></p> <p><u>Brickwork in burnt clay NFP bricks in 3:1 cement mortar:</u></p> <p>1 Half brick walls. m2 13</p> <p>2 One brick walls. m2 76</p> <p><u>BRICKWORK SUNDRIES</u></p> <p><u>Brickwork Sundries:</u></p> <p>3 Form toothings and bond new brickwork to existing brickwork. m2 3</p> <p><u>Brick reinforcement:</u></p> <p>4 75mm Wide reinforcement built in horizontally. m 39</p> <p>5 150mm Wide reinforcement built in horizontally. m 228</p> <p><u>Prestressed fabricated lintels:</u></p> <p>6 100 x 70mm lintels in lengths not exceeding 3m. m 5</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 2 Masonry</p>			
				R

<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL INSTALLATION, ETC.</u>					
7	Cut chase vertically or horizontally in concrete not exceeding 75mm wide for single conduit and make good.	m	75		
8	Cut chase vertically or horizontally in brickwork not exceeding 100mm wide for two conduits and make good.	m	25		
9	110mm Deep recess for and building in of distribution board not exceeding size 600 x 900mm and make good.	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 2 Masonry					

Section No. 2 Bill No. 2 Masonry				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 12		Amount	
	13		----- -----	
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p>			R	
Section No. 2 Bill No. 2 Masonry				

Item No		Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p>				
<p><u>BILL NO. 3</u></p>				
<p><u>CARPENTRY AND JOINERY</u></p>				
<p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>				
<p><u>DOORS, WINDOWS, SASHES, ETC.</u></p>				
<p><u>Semi-solid flush doors:</u></p>				
<p><u>44mm Thick door with hardwood concealed edge strips finished on both sides with commercial veneer and hung on steel frames (frames elsewhere):</u></p>				
1	Door size overall 813 x 2032mm high.	No	4	
2	Double leaf door with rebated meeting stiles size overall 1511 x 2032mm high.	No	2	
<p><u>Extra over semi-solid flush doors for:</u></p>				
3	Undercutting 813 x 2032mm high door by 180mm.	No	2	
4	Opening for 600mm x 500mm aluminium ventilation louvre (louvre elsewhere).	No	2	
<p>Carried Forward to Summary of Section No. 2</p>				R
<p>Section No. 2 Bill No. 3 Carpentry and Joinery</p>				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>SUSPENDED CEILING</u></p> <p><u>12,5mm Thick "Gyproc Gyprex" vinyl faced gypsum ceiling tile size 1200 x 600mm laid on and including "Donn T38V" white powder coated aluminium exposed demountable tee suspension ceiling system including main and cross tees, holding down clips, necessary hangers, grids, etc., all in strict accordance with the manufacturer's instructions:</u></p>			
1	Ceiling suspended not exceeding 1m below concrete soffits.	m2	173	
	<p><u>CORNICES, ETC.:</u></p> <p><u>Powdercoated shadowline cornices:</u></p>			
2	22mm GMS shadowline cornice secured to plastered wall and ceiling boarding including mitres, etc.	m	151	
	Carried to Collection		R	
	Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring			

<u>LEAD LINED PARTITIONING</u>					
<p>The following lead lined partitioning system to be installed complete with an extra row of vertical studs and lead lining material as per Tecmed specifications and attached Tecmed Drawing No. 001-G/L (Pieter Booysen - 082 373 1915 / (011) 653 2000).</p> <p><u>"Donn" partition system with an overall thickness of 150mm comprising recessed head section top track, recessed base section bottom track including z-section supports and two rows of vertical studs, one row at approximately 600mm centers and the other row at approximately 300mm centres including 75mm high aluminium skirting on both sides, additional studs where necessary at abutments, ends, reveals, etc., covered on both sides with and including 9,5mm thick wall board screwed to studding with dry-wall screws at 200mm centers and with and including a 2mm thick x 2200mm high lead sheet sandwiched between the two rows of studs. Joints are to be scrimmed over with 63mm wide strips of mesh and the whole partition system polished finished with and including skimmed plaster trowelled to a smooth surface to the thickness recommended by the manufacturer. Intersections and abutments are measured seperately and descriptions shall be deemed to include any additional studs, corner beads, aluminium skirting, etc.:</u></p>					
3	Partitioning 4020mm high with bottom and top tracks plugged.	m	43		
<u>Extra over 4020mm high partition for:</u>					
4	Vertical abutment.	No	2		
5	Corner.	No	6		
Carried to Collection					
Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring				R	

	<p><u>Doors, Door Frames, Etc.:</u></p> <p>The following lead lined doors to be installed complete as per Tecmed specifications (Pieter Booysen - 082 373 1915 / (011) 653 2000).</p> <p>6 Extra over partition for 44mm thick lead lined semi-solid door size overall 813 x 2032mm high with hardwood concealed edge strips and finished on both sides with commercial veneer and hung on steel frames (elsewhere). No 1</p> <p>7 Extra over partition for 44mm thick lead lined semi-solid two panel sliding door size overall 1660 x 2084mm high with hardwood concealed edge strips and finished on both sides with commercial veneer including sliding door gear and hung on steel frames (elsewhere). No 1</p> <p>8 Extra over partition for mild steel door frame to suite door size 813 x 2032mm high with two pairs of 100mm aluminium hinges including additional studding, trimming, etc. No 1</p> <p>9 Extra over partition for mild steel door frame to suite sliding door size 1660 x 2084mm high including additional studding, trimming, etc. No 1</p> <p><u>PARTITIONING</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring</p>			
			R	

	<p><u>"Donn" partition system with an overall thickness of 90mm comprising recessed head section top track, recessed base section bottom track including z-section supports and vertical studs at approximately 600mm centers including 75mm high aluminium skirting on both sides, additional studs where necessary at abutments, ends, reveals, etc., covered on both sides with and including 9,5mm thick wall board screwed to studding with dry-wall screws at 200mm centers. Joints are to be scrimmed over with 63mm wide strips of mesh and the whole partition system polished finished with and including skimmed plaster trowelled to a smooth surface to the thickness recommended by the manufacturer. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, aluminium skirting, etc.:</u></p>				
10	Partitioning 3000mm high with bottom and top tracks plugged.	m	50		
	<u>Extra over 3000mm high partition for:</u>				
11	T-intersection.	No	2		
12	Vertical abutment.	No	14		
13	Corner.	No	2		
	<u>Insulation:</u>				
14	63mm Thick self-supporting non-combustible lightweight "Cavitybatt" insulation (14kg/m3) laid vertically in cavity of partitioning.	m2	150		
	<u>Doors, Door Frames, Etc.:</u>				
15	Extra over partition for 44mm thick semi-solid door size overall 1600 x 2032mm high with hardwood concealed edge strips and finished on both sides with commercial veneer and hung on aluminium frames (elsewhere).	No	1		
	Carried to Collection				
	Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring			R	

16	Extra over partition for 44mm thick semi-solid door size overall 813 x 2032mm high with hardwood concealed edge strips and finished on both sides with commercial veneer and hung on aluminium frames (elsewhere).	No	1		
17	Extra over partition for natural anodised aluminium door frame to suite door size 1600 x 2032mm high with two pairs of 100mm aluminium hinges including additional studding, trimming, etc.	No	1		
18	Extra over partition for natural anodised aluminium door frame to suite door size 813 x 2032mm high with two pairs of 100mm aluminium hinges including additional studding, trimming, etc.	No	1		
<u>Shopfronts, Windows, Etc.:</u>					
<u>Purpose made natural anodised aluminium shopfronts, windows, etc. complete with frames, glazed with and including 6,38mm thick normal strength laminated safety glass with a polyvinyl butyral (PVB) plastic interlayer bonded between glass:</u>					
19	Extra over partitioning for L-Shaped shopfront with mullions, one fixed pane, one sliding opening section and one single leaf door with one leg size overall 1928 x 1150mm high and second leg size overall 890 x 2140mm high complete with and including frosted decal (D2).	No	1		
20	Extra over partitioning for double leaf door with mullions, two fixed panes and two fixed aluminium panels size overall 2000 x 2140mm high complete with and including frosted decal (D1).	No	1		
21	Extra over partitioning for double leaf door with mullions, two fixed panes and two fixed aluminium panels size overall 1720 x 2140mm high complete with and including frosted decal (D3).	No	2		
Carried to Collection					
Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring				R	

<p>22</p>	<p>Extra over partitioning for single leaf door with mullions and two fixed panes size overall 900 x 2140mm high (D4).</p> <p style="text-align: right;">No</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring</p>	<p style="text-align: center;">2</p>	<p style="text-align: center;">R</p>	
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Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 16		Amount	
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	18		-----	
	19		-----	
	20		-----	
	21		-----	
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p>			R	
Section No. 2 Bill No. 4 Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>FLOOR COVERINGS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></p> <p><u>3,7mm Thick "Polyflor Silentflor (colour : storm)" fully flexible PUR vinyl sheeting (SABS 786) with a hygrometer reading showing a moisture content of less than 75% fixed with approved acrylic adhesive and joints hot air seal welded with a fully flexible coloured welding rod to provide a continuous finished surface on:</u></p>			
1	Floors.	m2	376	
2	Walls.	m2	295	
	<p><u>SKIRTINGS, NOSINGS, ETC.</u></p> <p><u>Vinyl accessories fixed to walls with approved acrylic adhesive in strict accordance with the manufacturer's instructions:</u></p>			
3	"Polyflor Polycove PC20" vinyl cove former fixed with approved adhesive in strict accordance with the manufacturer's instructions.	m	267	
4	"Polyflor Ejecta MC17C" vinyl coiled skirting size 70 x 100mm fixed with approved adhesive in strict accordance with the manufacturer's instructions.	m	267	
	Carried to Collection			R
	<p>Section No. 2 Bill No. 5 Floor Coverings</p>			

5	<p>"Polyflor Ejecta CT30" vinyl clip top capping fixed with approved adhesive in strict accordance with the manufacturer's instructions.</p> <p style="text-align: right;">m</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 5 Floor Coverings</p>	267			
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Section No. 2 Bill No. 5 Floor Coverings <u>COLLECTION</u>				
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<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p> Section No. 2 Bill No. 5 Floor Coverings			R	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>IRONMONGERY</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>FIX ONLY THE FOLLOWING</u></p>			
1	Door lock-set comprising cylinder lock, handles, escutcheon, etc. No	8		
2	WC indicator bolt. No	2		
3	Aluminium fire exit push bar. No	1		
4	Aluminium kick plate size 800 x 300mm high. No	2		
5	Hat and coat hook. No	8		
6	Door stop. No	8		
	<p><u>SUPPLY AND FIX THE FOLLOWING</u></p>			
	<p><u>DOOR CLOSERS</u></p>			
7	"Dorma TS83" door closer with hold open parallel arm. No	4		
	<p><u>BATHROOM FITTINGS</u></p>			
8	"Franke Feranox" stainless steel foam soap dispenser installed in strict accordance with the manufacturer's instructions. No	2		
	<p>Carried to Collection</p>		R	
	<p>Section No. 2 Bill No. 6 Ironmongery</p>			

9	"Franke TR2" stainless steel multi-roll toilet roll dispenser installed in strict accordance with the manufacturer's instructions.	No	2		
10	"Franke FR359989" stainless steel ecofast hand dryer installed in strict accordance with the manufacturer's instructions.	No	2		
11	"Steiner Wall Mounted Bin" stainless steel bin installed in strict accordance with the manufacturer's instructions.	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 6 Ironmongery					

Section No. 2 Bill No. 6 Ironmongery <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 26		Amount	
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Section No. 2 Bill No. 6 Ironmongery				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>METALWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>STEEL COLUMNS, BEAMS, POSTS, ETC.</u></p> <p><u>Welded beams in single lengths with flat section gusset, bearer and connection plates:</u></p>			
1	254 x 146 x 31 Kg/m I-section beams including gusset plates, connectors, etc.	t	0.43	
	<p><u>BOLTS, ETC.</u></p>			
2	M20 x 190mm long chemical anchor bolts.	No	8	
	<p><u>PRESSED STEEL DOOR FRAMES</u></p>			
	<p><u>1,6mm Thick double rebated frames suitable for half brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one and a half pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p>			
3	Frame for door size 813 x 2032mm high.	No	4	
4	Frame for door size 1511 x 2032mm high.	No	2	
	Carried to Collection			R
	<p>Section No. 2 Bill No. 7 Metalwork</p>			

<p>5</p>	<p><u>VENTILATION GRILLES, ETC.</u></p> <p>Natural anodised aluminium ventilation grille and frame comprising of standard 1,6mm thick blades with and including frame size overall 600mm wide x 500mm high fixed into existing opening in semi-solid door (elsewhere).</p> <p style="text-align: right;">No</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 7 Metalwork</p>	<p>2</p>	<p>R</p>		
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Section No. 2 Bill No. 7 Metalwork <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 29		Amount	
	30			
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p>			R	
Section No. 2 Bill No. 7 Metalwork				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 8</u></p> <p><u>PLASTERING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>SELF LEVELLING SCREED</u></p> <p><u>Prepare and apply self levelling screed to concrete in strict accordance with the manufacturer's instructions:</u></p>			
1	Average 3mm thick on concrete floors.	m2	376	
	<p><u>INTERNAL PLASTER</u></p> <p><u>One coat cement plaster minimum 15mm thick (5:1) wood floated to receive tiles (elsewhere) including all labours on:</u></p>			
2	Brick vertical surfaces (part on concrete).	m2	162	
3	In narrow widths.	m2	8	
	<p><u>One coat cement plaster minimum 15mm thick (5:1) steel floated including all labours on:</u></p>			
4	Brick vertical surfaces (part on concrete).	m2	35	
5	In narrow widths.	m2	1	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 8 Plastering</p>		R	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>TILING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>WALL TILING</u></p> <p><u>Allow a Prime Cost Amount of R200/m2 for ceramic tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with tinted jointing compound on:</u></p>			
1	Walls.	m2	143	
2	Splashbacks.	m2	8	
	<p><u>FLOOR TILING</u></p> <p><u>600 x 600mm "Union Tiles Bellagio 6BLGLG-MHB" full-body porcelain tiles fixed with an approved rapid setting porcelain adhesive on plaster bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound on:</u></p>			
3	Floors.	m2	23	
	<p><u>SUNDRIES</u></p> <p><u>Corner protectors, dividing strips, etc.:</u></p>			
4	"Kirk M-Trim PRE090" 9mm high white PVC round edge trim fixed with patent adhesive to external wall corners.	m	16	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 9 Tiling</p>			<p>R</p>

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>SANITARY FITTINGS</u></p> <p><u>White ceramic:</u></p> <p>1 "Vaal Orchid (Ref. 439100) "back inlet wall hung open rim pan with exposed back inlet flushvalve (elsewhere) and heavy duty white double flap seat, fixing in position with and including semi-concealed brackets and connecting complete in strict accordance with the manufacturer's instructions. No 2</p> <p>2 "Vaal Sola 630 (Ref. 702800WH)" hospital wash hand basin size overall 630 x 500mm complete with and including chromium plated waste union, chain and stay, vulcanite plugs, fixing in position including sealing with an approved waterproof sealer and connecting complete in strict accordance with the manufacturer's instructions (taps elsewhere). No 4</p> <p><u>Approved stainless steel type 304 (18/10):</u></p> <p>3 "Franke SSW (Ref. 2630047)" hospital surgeon scrub unit size overall 2100 x 460 x 555mm with radiused internal corners and integral splashbacks complete with overflow, 40mm chromium plated waste union, chain and stay, vulcanite plugs and under sink insulation, fixing in position and sealing with an approved waterproof sealer and connecting complete (taps elsewhere). No 1</p>			
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Plumbing and Drainage</p>		R	

4	"Franke P2 (Ref. 2620483-002)" double bowl pot sink size overall 2400 x 650 x 1050mm with integral splashbacks complete with overflow, 40mm chromium plated waste union, chain and stay, vulcanite plugs and under sink insulation, fixing in position and sealing with an approved waterproof sealer and connecting complete (taps elsewhere).	No	1		
5	"Franke S1 (Ref. 2620018)" single bowl catering sink size overall 1500 x 650 x 1050mm with integral splashbacks complete with overflow, 40mm chromium plated waste union, chain and stay, vulcanite plugs and under sink insulation, fixing in position and sealing with an approved waterproof sealer and connecting complete (taps elsewhere).	No	1		
	<u>TRAPS, ETC.</u>				
6	40mm Chromium plated brass bottle trap.	No	9		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Taps:</u>				
7	"Cobra Stella (Ref. 3366-041-10ST)" sink mixer with aerated swivel outlet.	No	3		
8	"Cobra (Ref. 508)" 15mm medical elbow action mixer.	No	7		
9	"Cobra (Ref. 107EC-15)" bib tap.	No	5		
10	"Cobra Junior Flushmaster (Ref. FJ2-210)" exposed flush valve.	No	2		
	<u>CHASES, SLEEVES, HOLES, ETC. INCLUDING MAKING GOOD</u>				
11	Chase in wall for pipe not exceeding 50mm diameter.	m	30		
12	Chase in concrete for pipe not exceeding 50mm diameter.	m	15		
	Carried to Collection				
	Section No. 2 Bill No. 10 Plumbing and Drainage				R

<p>13</p> <p>14</p> <p>Section No. 2 Bill No. 10 Plumbing and Drainage</p>	<p>Hole for pipe not exceeding 50mm diameter through 345mm wall.</p> <p><u>Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter in:</u></p> <p>Reinforced concrete slab, beam, wall, etc. not exceeding 250mm thick.</p> <p style="text-align: center;">Carried to Collection</p>	<p>No</p> <p>No</p>	<p>4</p> <p>10</p>	<p></p> <p style="text-align: center;">R</p>	<p></p> <p></p>
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>GLAZING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <hr/> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>6mm Thick silvered float glass copper backed mirrors with 10mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in porcelain tiled wall:</u></p> <p>1 Mirror size 600 x 1000mm high. No</p>	2		
	<p align="center">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 11 Glazing</p>		R	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>PAINTWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>PAINTWORK TO NEW WORK</u></p> <p><u>PLASTER</u></p> <p><u>Prepare and apply one coat "Plascon" plaster primer and two coats "Plascon Wall and All" paint on:</u></p>			
1	Internal plastered walls, columns, recessed bands, etc.	m2	36	
	<p><u>PLASTERBOARD</u></p> <p><u>Prepare and apply one coat "Plascon" primer and two coats "Plascon Wall and All" paint on:</u></p>			
2	Partitions.	m2	607	
	<p><u>METAL</u></p> <p><u>Prepare and apply one coat "Plascon Zinc Phosphate" primer and two coats "Plascon Velvagro" paint on:</u></p>			
3	Frames and linings.	m2	13	
4	Structural steel members.	m2	22	
	Carried to Collection			R
	Section No. 2 Bill No. 12 Paintwork			

	<u>WOOD</u>				
	<u>Prepare and apply one coat "Plascon Woodcare Pre-treatment", one coat "Plascon Wood Primer" and two coats "Plascon Velvaglo" paint on:</u>				
5	General surfaces of doors.	m2	51		
	<u>VINYL SEALANT</u>				
	<u>Prepare and apply two coats high gloss water-based acrylic emulsion floor coating in strict accordance with the manufacturer's instructions on:</u>				
6	Vinyl floor coverings and skirtings.	m2	376		
7	Vinyl wall coverings.	m2	295		
	<u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u>				
	<u>PLASTER</u>				
	<u>Clean down, prepare and apply one coat "Plascon" plaster primer and two coats "Plascon Wall and All" paint on:</u>				
8	Internal plastered walls, columns, recessed bands, etc.	m2	374		
9	Internal plastered slab soffits including beams.	m2	307		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Paintwork				

Section No. 2 Bill No. 12 Paintwork <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 39		Amount	
	40			
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p>			R	
Section No. 2 Bill No. 12 Paintwork				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 13</u></p> <p><u>PROVISIONAL SUMS</u></p> <p>The following sums and amounts are NETT.</p> <p>Under no circumstances may any Provisional Sum or P.C Item be altered.</p> <p>Unless a specific percentage mark up for attendance is indicated in the rate column, the amounts priced by the contractor for attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub-contract varies significantly.</p> <p>Provisional Sums contained herein may be omitted or reduced at the employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to the Provisional Sums pr P.C Amounts or any loss of profit related thereto.</p>			
	<p><u>ALLOW THE FOLLOWING PROVISIONAL SUMS</u></p> <p><u>HVAC INSTALLATION</u></p> <p>1 Provide the amount of R827,000.00 (Eight Hundred and Twenty Seven Thousand Rand) for HVAC installation executed complete.</p> <p>2 Profit on above item.</p> <p>3 Attendance on ditto.</p>	Item		827,000.00
	Carried to Collection		R	
	Section No. 2 Bill No. 13 Provisional Sums			

<u>SECURITY AND DATA INSTALLATION</u>					
4	Provide the amount of R251,000.00 (Two Hundred and Fifty One Thousand Rand) for security and data installation executed complete.	Item		251,000.00	
5	Profit on above item.		%		
6	Attendance on ditto.		%		
<u>JOINERY FITTINGS</u>					
7	Provide the amount of R125,000.00 (One Hundred and Twenty Five Thousand Rand) for joinery fittings installed complete.	Item		125,000.00	
8	Profit on above item.		%		
9	Attendance on ditto.		%		
<u>LOCKERS</u>					
10	Provide the amount of R42,000.00 (Forty Two Thousand Rand) for lockers installed complete.	Item		42,000.00	
11	Profit on above item.		%		
12	Attendance on ditto.		%		
<u>SIGNAGE</u>					
13	Provide the amount of R15,000.00 (Fifteen Thousand Rand) for signage installed complete.	Item		15,000.00	
14	Profit on above item.		%		
15	Attendance on ditto.		%		
<u>WHITE BOARDS</u>					
16	Provide the amount of R3,000.00 (Three Thousand Rand) for white boards installed complete.	Item		3,000.00	
Carried to Collection					
			R		
Section No. 2					
Bill No. 13					
Provisional Sums					

17	Profit on above item.		%		
18	Attendance on ditto.		%		
<u>ROLLER SHUTTER DOORS</u>					
19	Provide the amount of R47,500.00 (Forty Seven Thousand Five Hundred Rand) for roller shutter doors installed complete.	Item		47,500.00	
20	Profit on above item.		%		
21	Attendance on ditto.		%		
<u>ALLOW THE FOLLOWING PRIME COST SUMS</u>					
22	Allow a Prime Cost Amount of R30,000.00 (Thirty Thousand Rand) for ironmongery including taking delivery, storing and fixing when required.	Item		30,000.00	
23	Profit on above item if required.		%		
<u>FINANCIAL PROVISIONS</u>					
The items described hereunder cover work which is not fully defined at tender stage and which is intended to be executed by the Contractor and/or his Sub-Contractors. The amounts shown shall be used as directed by the Representative/ Agent and shall be deducted in whole or in part if not required.					
24	Allow the amount of R25,000.00 (Twenty Five Thousand Rand) for minor building work to the eighth floor. This work shall be measured on completion and priced at scheduled rates.	Item		25,000.00	
Carried to Collection				R	
Section No. 2 Bill No. 13 Provisional Sums					

DSB Consulting Engineers BOQ
GENERAL

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
	1	<p>GENERAL</p> <p>All supplied equipment to be SABS Mark approved and the Contractor to provide SABS certificates from the manufacturers. BS or EU certificates may be accepted for imported equipment.</p>				
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ

WATER SUPPLY

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
	1	PIPES AND FITTINGS				
	1.1	<p>WATER SUPPLY</p> <p>All rates supplied in this bill of quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height.</p> <p>All pipes shall be deemed to include in the rates all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.</p> <p>All cold water supply pipes are to be chased into walls except where pipes are to be surface-mounted on wall face and fixed with standard type pipe saddles and brackets.</p> <p>Note manufacturer names are used only to define quality and specification but any equivalent may be priced and proposed for approved by Engineer and client.</p>				
	1.2	<p>COPPER PIPE</p> <p>Class 0 copper pipes with and including fittings, brackets, fittings fixed to walls etc:</p>				
	1.2.1	15mm Pipe	40	m		
	1.2.2	22mm Pipe	60	m		
	1.2.3	28mm Pipe	30	m		
	1.2.4	35mm Pipe	20	m		
	1.3	COPPER WALL PLATE ELBOW				
	1.3.1	15mm Wall plate elbow	8	No		
	1.3.2	22mm Wall plate elbow	2	No		
Total Carried Forward						

DSB Consulting Engineers BOQ
WATER SUPPLY

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	2	VALVES				
		Note manufacturer names are used only to define quality and specification but any equivalent may be priced and proposed for approved by Engineer and client.				
		PRV's				
	2.3	32mm PRV pressure reducing valve	1	No		
	2.2	AIR VENT VALVES				
	2.2.1	Air vent Valves HW & CW high points 22mm	2	No		
	2.3	COBRA LEVER BALL VALVE				
	2.3.5	25 mm - 1090 Cobra lever ball valve	4	No		
	2.3.6	20 mm - 1090 Cobra lever ball valve	4	No		
	2.3.7	15 mm - 1090 Cobra lever ball valve	4	No		
Total Carried Forward						

DSB Consulting Engineers BOQ
WATER SUPPLY

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	3	<p>HOT WATER SYSTEM</p> <p>All rates supplied in this bill of quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height.</p> <p>All pipes suspended from concrete slabs, roof, ceiling, etc, shall be deemed to include in the rates all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.</p> <p>All hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddles and brackets at 1000mm maximum.</p>				
	3.1	<p>HOT WATER PIPE INSULATION</p> <p>Extra over Pipework for insulation as specified per pipe diameter Fibre Glas insulation. Insulation thickness should at least be equal to the diameter of the pipe.</p>				
	3.1.1	15mm	20	m		
	3.1.2	20mm	20	m		
	3.1.3	25mm	15	m		
	3.2	EXTRA ITEMS				
	3.3	UNDER COUNTER GEYSER				
	3.3.1	5liter 1,5kW under counter geyser	2	No		
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ
SANITARY DRAINAGE

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
	1	<p>PIPES AND FITTINGS</p> <p>The installation shall be carried out so as to conceal the drainage pipes where possible. Supply, install, test and commission all the Sanitary Drainage installation to conform to SANS 10252 part 2</p> <p>VALSIR/GEBERIT pipe or similar approved, to duct and walls including brackets & support to manufacturers specifications note fixed point at expansion socket or 90 degree change in direction(20/25mm strut). All pipes laid in ground must be bedded on selected compacted filling at least 150mm thick. Soft Excavation and Intermediate Excavations' as defined in clause 3.1.2.B of SABS 1200 D have not been identified by way of separate measurement. The Contractor shall thus include within his 'Pickable Earth' excavation rates for excavation in all materials. HDPE pipes for above ground and underground use including couplers, and support brackets in the running length.(contractor to included couplers, and support brackets in the rate per meters .</p> <p>Note manufacturer names are used only to define quality and specification but any equivalent may be priced and proposed for approved by Engineer and client.</p>				
	1.1	<p>HDPE PIPING</p> <p>HDPE pipes with and including fittings, brackets, fittings fixed to walls etc:</p>				
	1.1.1	110 mm pipe above ground	10	m		
	1.1.2	75 mm pipe above ground	20	m		
	1.1.3	50 mm pipe above ground	20	m		
	1.2	BALL JUNCTION				
	1.2.1	100 mm twoway	2	No		
	1.3	REDUCER (SHORT ECCENTRIC)				
Total Carried Forward						

DSB Consulting Engineers BOQ
SANITARY DRAINAGE

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	1.3.1	110/50mm	2	No		
	1.4	ACCESS EYE SCREW ON TYPE FOR CE DETAILS				
	1.4.1	110 mm Screwed end cap	2	No		
	1.4.2	50 mm Screwed end cap	4	No		
	1.5	ELECTROWELD COUPLINGS				
	1.5.1	110 mm	10	No		
	1.5.2	75 mm	10	No		
	1.5.3	50 mm	10	No		
	1.6	VALVES				
	1.7	ONE WAY VENT VALVES				
	1.7.1	100mm PVC Vent Valves	1	No		
	1.7.2	50mm PVC Vent Valves	2	No		
	1.8	CORING AND/OR SLEEVES				
	1.8.1	Placing 125mm sleeves in slabs	2	m		
	1.8.2	Coring for sleeves 63mm in slabs	2	No		
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ

FIRE PROTECTION

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
	1	<p>FIRE PROTECTION</p> <p>Lockable fire hose reel and fire extinguisher cabinets will be installed for safety against vandalism. Fire extinguishers, fire hose reels and fire hydrants will be installed according to the requirements of the current SANS 10400-T: 2011 3rd Edition of 2011 as mitigation measures in accordance with the risk associated with such a project with building classification A3 - Place Of Instruction in accordance with SANS 10400-A: 2010. Additional measures will be taken to install fire extinguishers in the classrooms enclosed in vandalproof enclosures to reduce vandalism.</p> <p>Supply and install fire protection hydrant valves, hose reels, fire extinguishers and pipes & fittings in positions as indicated on the drawings. The installation of the fire protection equipment shall conform to the minimum requirements of SANS 10400-T & SANS 10400-W latest revisions.</p>				
	1.2	<p>FIRE HOSE REELS</p> <p>All Fire Hose Reels shall comply with the requirements of SANS 543, and shall be installed accordance with SANS 10105-1 and SANS 10400-W and the Department's Document GP/M1 Rev 1.</p>				
	1.2.1	<p>Supply, install, test and commission SABS approved fire hose reel fitted with 30m length of 20mm hose mounted on wall bracket bolted to wall behind. The FHR to be installed complete with 25mm chromium shut-off valve, ø7mm aluminium nozzle and hose guide. FHR to be in red painted steel enclosures with breakable glass and key.</p>	2	No		
	1.4	<p>PORTABLE FIRE EXTINGUISHERS</p> <p>All Portable Fire Extinguishers shall comply with the requirements of SANS 1910, and the Department's Document GP/M1 Rev 1.</p>				
Total Carried Forward						

DSB Consulting Engineers BOQ

FIRE

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	1.4.3	5kg CO2 F.E. type fire extinguisher with bracket fixed to and including anti vandalising plastic Enclosure/cabinet	2	No		
	1.4.4	4.5kg dry chemical powder (DCP) type fire extinguisher with bracket fixed to and including anti vandalising plastic Enclosure/cabinet	6	No		
	1.5	FIRE SIGNAGE Photoluminescent fire equipment and direction location signage and warning notices in accordance with SANS 1186-1: 2008, and incorporating the pictographs in the standard size 190 x 190mm, securely fixed to wall, door, ceiling or soffit as required and as maybe indicated on drawings and architectural specifications.				
	1.5.1	Indicating direction of egress	6	No		
	1.5.2	Indicating escape staircases	1	No		
	1.5.3	Indicating exit doors	2	No		
	1.5.5	Indicating hose reel	2	No		
	1.5.6	Indicating portable extinguisher	4	No		
	1.5.7	Indicating hose reel and DCP	2	No		
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ

FIRE

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	2	PIPEWORK				
		Medium class galvanised mild steel (GMS) screwed and socketed pipes to SANS 62 including fittings, in the running length, and all necessary, supports, fixing, brackets, saddles, holderbats etc,				
	2.6	50mm	5	m		
	2.7	40mm	15	m		
	2.8	32mm	25	m		
	2.9	25mm	30	m		
	2.4	TESTING AND COMMISSIONING				
	2.4.1	Allow for testing of entire Fire Protection installation after completion.	1	Sum		
	2.7	PAINTING				
	2.7.1	Painting and identification of all fire pipe work as per SANS. Painting and marking of all exposed pipe work, equipment where required. Per installed unit FHR & Hydrant	1	Pc		
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ
FIRE

SI

Cat	ITEM NO	DESCRIPTION	QUANT	UNIT	RATE	AMOUNT R
Total Brought Forward						
	7	SPRINKLER SPRINKLER HEAD with accessories Replace all sprinkler heads in the project area. Rate should include draining of the system.				
	7.2.4	15 mm 68 SR TY-FRB 5.6 K-factor chrome pendant or similar (Office area)	40	No		
	7.2.5	15 mm White metal rosettes (Office area)	30	No		
Total Carried Forward To Summary						

DSB Consulting Engineers BOQ

SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT R
1	GENERAL	
2	WATER SUPPLY	
3	SANITARY DRAINAGE	
4	FIRE PROTECTION	
Total Carried Forward to Section Summary		

SECTION SUMMARY - 9th Floor Surgical Skills Training Unit		Page No			
Bill No					
1	Alterations	11			
2	Masonry	14			
3	Carpentry and Joinery	15			
4	Ceilings, Partitions and Access Flooring	22			
5	Floor Coverings	25			
6	Ironmongery	28			
7	Metalwork	31			
8	Plastering	32			
9	Tiling	33			
10	Plumbing and Drainage	37			
11	Glazing	38			
12	Paintwork	41			
13	Provisional Sums	45			
14	Wet Services and Fire (DSB Consulting Engineers BoQ)	56			
	Carried to Final Summary		R		
	Section No. 2				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p>TENDERERS ARE TO NOTE THAT ALL WORK IS TO BE EXECUTED IN EXISTING BUILDINGS IN A COMBINATION OF NEW WORK, WORK IN PATCHES AND WORK IN SMALL QUANTITIES.</p> <p><u>Site inspection</u></p> <p>The Tenderer is advised to visit the site, inspect the existing premises and acquaint himself thoroughly with the nature of the work specified.</p> <p><u>Sizes and dimensions</u></p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>No allowance for overbreak has been made to any of the adjoining structures, walls, finishes, etc., where removals or pockets occur (the nett opening size, etc., has been made good in later items of this bill where such making good has not been included with the item) and the Contractor must allow in his prices for making good any overbreak that may occur.</p> <p><u>Materials</u></p> <p>Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 1 Alterations</p>			
			R	

<p>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p>	<p>None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p>	<p>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p>	<p><u>General</u></p>	<p>All new finishes are measured in the relevant trades for new work.</p>	<p>Allow for watering the works sufficiently to prevent nuisance from dust.</p>	<p>All alteration works described hereunder shall imply the use of an approved screed or plaster repairing compound and preparing existing surfaces to receive new.</p>	<p>Provide all necessary propping, etc., required to ensure the safety and stability of the structure during the contract period and remove at completion.</p>	<p>Carried to Collection</p>	<p>Section No. 3 Bill No. 1 Alterations</p>	<p>R</p>
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<p>Provide all necessary additional barricades, screens, overhead protections, etc., required to ensure the safety of persons, property, etc., and remove at completion.</p> <p>All alteration work is within an existing facility. The contractor shall take utmost care to minimise damage to existing completed works in the vicinity of the alteration works.</p>			
<p><u>DEMOLITIONS</u></p> <p>1 Demolish existing single storey prefabricated building and cart away all material including sealing off existing services, etc. size overall approximately 17,00 x 2,00 x 3,00m high. No 1</p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Take out and remove doors, windows, etc. including thresholds, sills, etc. (building up openings elsewhere).</u></p> <p>2 Single leaf door and frame unit size overall 813 x 2032mm high from one brick wall. No 4</p> <p><u>Take down and remove roofs, floors, panelling, ceilings, partitions, etc:</u></p> <p>3 Suspended ceilings including suspension grid, hangers, etc. m2 25</p> <p>4 Timber skirtings. m 21</p> <p><u>Take up and remove floor coverings, wall linings, etc.:</u></p> <p>5 Carpets including preparing screed to receive new floor finish. m2 25</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 Bill No. 1 Alterations</p>			

	<p><u>Hack up/off and remove waterproofing, screeds, etc. from concrete or brickwork and prepare surfaces for new waterproofing, etc:</u></p> <p>6 80mm Thick (average) roof screed including scabbling, wire brush cleaning and washing in preparation for new screed. m2 41</p> <p>7 Bituminous waterproofing membrane to slabs and beams including removal of all flashing strips, etc. m2 41</p> <p><u>BUILD UP OPENINGS</u></p> <p><u>Brickwork in SABS approved NFP bricks in class II mortar in building up opening in:</u></p> <p>8 One brick walls. m2 8</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 1 Alterations</p>			
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Section No. 3 Bill No. 1 Alterations				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 58		Amount	
	59		-----	
	60		-----	
	61		-----	
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 1 Alterations				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>REINFORCED CONCRETE</u></p> <p><u>25MPa/19mm Concrete in:</u></p>			
1	Topping to composite hollow block slab including beams and inverted beams.	m3	14	
	<p><u>TEST BLOCKS</u></p> <p><u>Test Blocks:</u></p>			
2	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	2	
	<p><u>CONCRETE SUNDRIES</u></p> <p><u>Finishing top surfaces of concrete smooth with a steel float:</u></p>			
3	Surface beds, slabs, etc. to falls.	m2	95	
	<p><u>HOLLOW BLOCKS, ETC.</u></p>			
	Carried to Collection			R
	Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement			

	<u>Allow a Prime Cost Amount of R800/m2 for precast concrete hollow block and beam slab system including all necessary propping, etc. erected in strict accordance with the manufacturer's instructions:</u>				
4	Take delivery, store and erect precast concrete hollow block and beam slab system in position when required.	m2	95		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to composite hollow block slab:</u>				
5	Soffits of composite slab including propping up precast beams laid at approximately 1200mm centres.	m2	95		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work:</u>				
6	10mm Diameter bars.	t	0.10		
7	8mm Diameter bars.	t	0.12		
	<u>High tensile steel reinforcement to structural concrete work:</u>				
8	20mm Diameter bars.	t	0.13		
9	10mm Diameter bars.	t	0.07		
	<u>Fabric reinforcement with minimum 400mm wide overlaps:</u>				
10	Type 100 fabric reinforcement in concrete topping.	m2	95		
	Carried to Collection				
	Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement				R

Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No		Amount	
	63			
	64			
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>BRICKWORK IN SUPERSTRUCTURE</u></p> <p><u>Brickwork in burnt clay NFP bricks in 3:1 cement mortar:</u></p> <p>1 Half brick walls. m2 131</p> <p>2 One brick walls. m2 74</p> <p>3 One brick parapet walls. m2 7</p> <p><u>BRICKWORK SUNDRIES</u></p> <p><u>Brickwork Sundries:</u></p> <p>4 Form toothings and bond new brickwork to existing brickwork. m2 2</p> <p><u>Brick reinforcement:</u></p> <p>5 75mm Wide reinforcement built in horizontally. m 441</p> <p>6 150mm Wide reinforcement built in horizontally. m 222</p> <p><u>Prestressed fabricated lintels:</u></p> <p>7 100 x 70mm lintels in lengths not exceeding 3m. m 55</p>			
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 3 Masonry</p>			R

<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL INSTALLATION, ETC.</u>					
8	Cut chase vertically or horizontally in concrete not exceeding 75mm wide for single conduit and make good.	m	20		
9	Cut chase vertically or horizontally in brickwork not exceeding 100mm wide for two conduits and make good.	m	40		
10	110mm Deep recess for and building in of distribution board not exceeding size 600 x 900mm and make good.	No	1		
Carried to Collection					
Section No. 3 Bill No. 3 Masonry				R	

Section No. 3 Bill No. 3 Masonry <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 66		Amount	
	67			
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 3 Masonry				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron type B damp-proof course:</u></p>			
1	<p>In walls, under cills, etc.</p>	m2	3	
	<p><u>SLAB WATERPROOFING</u></p> <p>The Contractor shall allow in his rates for testing the waterproofing for water tightness by ponding the waterproofed surfaces for a period of at least 48 hours before application of a protective layer.</p> <p><u>4mm Thick "Derbigum SP" fully bonded waterproofing guaranteed to remain watertight for a period of three years on:</u></p>			
2	<p>Concrete slab, beams and sides of parapets including dressing into outlets, turn-ups, etc.</p>	m2	95	
3	<p>Flashing strip 300mm girth at turn-ups including sealing top edge into groove with mastic.</p>	m	49	
	<p><u>PROTECTIVE PAINT</u></p>			
	<p>Carried to Collection</p>		R	
	<p>Section No. 3 Bill No. 4 Waterproofing</p>			

<p>4</p>	<p><u>Prepare and apply two coats bituminous aluminium paint on:</u></p> <p>Waterproofing on concrete slab, beams and side of parapets.</p> <p>m2</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 4 Waterproofing</p>	<p>124</p>	<p>R</p>	
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Section No. 3 Bill No. 4 Waterproofing <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 69		Amount	
	70			
<p align="center">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 4 Waterproofing				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 5</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>DOORS, WINDOWS, SASHES, ETC.</u></p> <p><u>Solid flush doors:</u></p> <p><u>44mm Thick door with hardwood concealed edge strips finished on both sides with commercial veneer and hung on steel frames (frames elsewhere):</u></p> <p>1 Door size overall 813 x 2422mm high. No 1</p> <p><u>SKIRTINGS</u></p> <p>2 22 x 70mm High S.A Pine bull nosed skirting including recess to back face of skirting fixed to wall at 400mm centres. m 111</p> <p style="text-align: right;">Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 5 Carpentry and Joinery</p>		R	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 6</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>SUSPENDED CEILING</u></p> <p><u>12,5mm Thick "Gyproc Gyprex" vinyl faced gypsum ceiling tile size 1200 x 600mm laid on and including "Donn T38V" white powder coated aluminium exposed demountable tee suspension ceiling system including main and cross tees, holding down clips, necessary hangers, grids, etc., all in strict accordance with the manufacturer's instructions:</u></p>			
1	Ceiling suspended not exceeding 1m below concrete soffits.	m2	120	
	<p><u>CORNICES, ETC.:</u></p> <p><u>Powdercoated shadowline cornices:</u></p>			
2	22mm GMS shadowline cornice secured to plastered wall and ceiling boarding including mitres, etc.	m	111	
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 6 Ceilings, Partitions and Access Flooring</p>		R	

Item No		Quantity	Rate	Amount
1	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>FLOOR COVERINGS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <hr/> <p><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></p> <p><u>3,7mm Thick "Polyflor Silentflor (colour : storm)" fully flexible PUR vinyl sheeting (SABS 786) with a hygrometer reading showing a moisture content of less than 75% fixed with approved acrylic adhesive and joints hot air seal welded with a fully flexible coloured welding rod to provide a continuous finished surface on:</u></p> <p>Floors. m2</p> <p style="text-align: right;">Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 7 Floor Coverings</p>	120		
				R

Item No		Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>				
<p><u>BILL NO. 8</u></p>				
<p><u>IRONMONGERY</u></p>				
<p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>				
<p><u>FIX ONLY THE FOLLOWING</u></p>				
1	Door lock-set comprising cylinder lock, handles, escutcheon, etc.	No	1	
2	Hat and coat hook.	No	5	
<p><u>SUPPLY AND FIX THE FOLLOWING</u></p>				
<p><u>DOOR CLOSERS</u></p>				
3	"Dorma TS83" door closer with hold open parallel arm.	No	13	
<p>Carried Forward to Summary of Section No. 3</p>				R
<p>Section No. 3 Bill No. 8 Ironmongery</p>				

Item No		Quantity	Rate	Amount
1	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <hr/> <p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,6mm Thick double rebated frames suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one and a half pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p> <p>Frame for door size 813 x 2422mm high.</p> <p><u>ALUMINIUM WINDOWS, DOORS, ETC.</u></p> <p><u>General:</u></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. shall be designed, manufactured, supplied and installed in strict compliance with the "Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA), General Specification for Architectural Aluminium and Glass Products 2010 Edition" and SANS 10400.</p> <p>All descriptions shall be deemed to include transoms, mullions, etc. as per the Architect's drawings.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 9 Metalwork</p>	No	1	<p style="text-align: right;">R</p>

	<p><u>Design and installation:</u></p> <p>The Sub-Contractor shall be required to design the entire installation, provide all labour, materials, equipment and services required to complete the installation as specified herein.</p> <p>The Sub-Contractor shall ensure that the necessary wind pressure provisions have been incorporated within the design criteria. The Sub-Contractor shall submit his wind design criteria to the Architect for inspection.</p> <p>The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.</p> <p>The Sub-Contractor shall allow for and produce fully detailed workshop drawings (3 copies) including samples of all ironmongery within 14 working days of the Main Contractors request.</p> <p><u>Fire resistance:</u></p> <p>The installation shall conform to the Local Authorities fire resistance standards.</p> <p><u>Templates:</u></p> <p>Templates formed of 25 x 25mm square hollow section steel are to be provided in each opening to ensure that all windows, doors, shopfronts, skylights, etc. are built in plumb and square.</p> <p>The subcontractor is to use his discretion in providing a sufficient quantity of templates as required to complete the Works as per the Main Contractors programme.</p> <p><u>Grounds:</u></p> <p>19 x 25mm Wrought SA pine grounds are to be fitted all round windows, doors, etc. where required. Where grounds are visible they should be painted to form a shadowline.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 9 Metalwork</p>				
				R	

<p><u>Sealing:</u></p>	<p>Window frames are to be sealed all round internally and externally against the building structure with approved silicone jointing compound to prevent water ingress.</p>				
<p><u>Weather seals:</u></p>	<p>Where required windows, doors, etc. are to be fitted with approved woolpile weather seals.</p>				
<p><u>Ironmongery to doors:</u></p>	<p>Door leaves are to be hung on one and a half pairs of 100 x 75mm butt hinges and fitted with one spring clip door holder. In addition double doors are to be fitted with one 150mm and one 200mm natural anodised flush lever bolt.</p>				
	<p>Tenderers shall submit full specifications of ironmongery quoted which shall include all furniture, locks, handles, butt hinges, floor spring hinges, etc.</p>				
	<p>The Sub-Contractor shall be required to submit ironmongery samples for approval prior to installation.</p>				
	<p>Sub-Contractors are to note that the approval of shop drawings does not automatically indicate acceptance of ironmongery proposals.</p>				
<p><u>Prices:</u></p>	<p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. must include for all jointing, notching, cutting, etc. and for setting up and fixing complete with glass, glazing beads, external cills, ironmongery, fixing brackets, lugs, bolts, timber grounds, silicone sealant, etc. all as detailed and scheduled on the drawings and as necessary for the satisfactory execution of the work.</p>				
	<p>Carried to Collection</p>			<p>R</p>	
<p>Section No. 3 Bill No. 9 Metalwork</p>					

<p><u>Factory quality control:</u></p>	<p>The Sub-Contractor shall afford the Main Contractor full access to plant, shop and assembly point to view and inspect the process and method employed in the fabricating and assembly of glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc.</p>				
<p><u>Protection and cleaning:</u></p>	<p>All aluminium must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.) and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion all such protection shall be removed and work cleaned down and left in proper working order.</p>				
	<p>All glazing is to be protected from damage, breakage, scratches, etc. and allowances shall be made for polishing the glass as and when instructed by the Main Contractor.</p>				
	<p><u>ALUMINIUM WINDOWS</u></p>				
	<p><u>Purpose made powder coated aluminium windows complete with frames in brick or concrete openings, glazed with and including 6,38mm thick normal strength laminated safety glass with a polyvinyl butyral (PVB) plastic interlayer bonded between glass:</u></p>				
<p>2</p>	<p>Fixed pane window size overall 1200 x 1200mm high (W2).</p>	<p>No</p>	<p>10</p>		
<p>3</p>	<p>Window with mullions and four fixed panes size overall 1500 x 1860mm high (W1).</p>	<p>No</p>	<p>3</p>		
	<p><u>ALUMINIUM DOORS</u></p>				
	<p>Carried to Collection</p>			<p>R</p>	
	<p>Section No. 3 Bill No. 9 Metalwork</p>				

<p>4</p>	<p><u>Purpose made powder coated aluminium doors complete with frames in brick or concrete openings, glazed with and including 6,38mm thick normal strength laminated safety glass with a polyvinyl butyral (PVB) plastic interlayer bonded between glass:</u></p> <p>Single leaf door with mullions, one fixed pane and one fixed aluminium panel size overall 900 x 2465mm high (D2).</p>	<p>No</p>	<p>19</p>	<p>R</p>
<p style="text-align: center;">Carried to Collection</p>				<p></p>
<p>Section No. 3 Bill No. 9 Metalwork</p>				<p></p>

Section No. 3 Bill No. 9 Metalwork <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No		Amount	
	76			
	77			
	78			
	79			
	80			
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 9 Metalwork				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 10</u></p> <p><u>PLASTERING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>SCREEDS</u></p> <p><u>Screeds on concrete:</u></p> <p>1 80mm Thick (average) on slabs to falls to receive waterproofing. m2 129</p> <p>2 40mm Thick on floors. m2 95</p> <p>3 75mm x 75mm Triangular fillet at perimeter of roof screed to receive turn-up of waterproofing. m 87</p> <p><u>SELF LEVELLING SCREED</u></p> <p><u>Prepare and apply self levelling screed to concrete in strict accordance with the manufacturer's instructions:</u></p> <p>4 Average 3mm thick on concrete floors. m2 120</p> <p><u>INTERNAL PLASTER</u></p> <p><u>One coat cement plaster minimum 15mm thick (5:1) steel floated including all labours on:</u></p> <p>5 Brick vertical surfaces (part on concrete). m2 336</p> <p>6 In narrow widths. m2 9</p>			
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 10 Plastering</p>			R

<u>EXTERNAL PLASTER</u>					
<u>One coat cement plaster mimimum 15mm thick (5:1) steel floated including all labours on:</u>					
7	Brick vertical surfaces (part on concrete).	m2	88		
8	In narrow widths.	m2	2		
Carried to Collection					
Section No. 3 Bill No. 10 Plastering					R

Section No. 3 Bill No. 10 Plastering				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 82		Amount	
	83			
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 10 Plastering				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>RAINWATER DISPOSAL</u></p> <p><u>HDPE pipes including holderbats, etc.:</u></p>			
1	110mm Diameter rainwater downpipes.	m	15	
	<p><u>Extra over uPVC pipes for fittings</u></p>			
2	110mm Bend.	No	3	
	<p><u>"Fullbore" cast iron outlets including joint to HDPE pipes, adaptors, etc.:</u></p>			
3	100mm "Saint Gobain" vertical roof outlet with domical grating, jointed to HDPE pipe and set in top of concrete slab.	No	3	
	<p><u>SANITARY FITTINGS</u></p>			
	Carried to Collection			R
	Section No. 3 Bill No. 11 Plumbing and Drainage			

4	<p><u>White ceramic:</u></p> <p>"Vaal (Ref. 234500)" rectangular laboratory sink size overall 435 x 335 x 180mm deep without overflow, including centre end waste outlet complete with acid resistant waste union (Ref. 8790Z0), chain and stay, vulcanite plugs, brackets, etc. and fixing in position including sealing with an approved waterproof sealer and connecting complete (taps elsewhere).</p> <p style="text-align: right;">No</p>	2		
	<p><u>TRAPS, ETC.</u></p>			
5	<p>40mm Chromium plated brass bottle trap.</p> <p style="text-align: right;">No</p>	2		
	<p><u>TAPS, VALVES, ETC.</u></p>			
	<p><u>Taps:</u></p>			
6	<p>"Brownall Labtap (Ref. XL 1206-0)" lab sink tap with Swivel swanneck fitting with two side arms angle vales with removable nozzles.</p> <p style="text-align: right;">No</p>	2		
	<p><u>CHASES, SLEEVES, HOLES, ETC. INCLUDING MAKING GOOD</u></p>			
7	<p>Chase in wall for pipe not exceeding 50mm diameter.</p> <p style="text-align: right;">m</p>	10		
8	<p>Chase in concrete for pipe not exceeding 50mm diameter.</p> <p style="text-align: right;">m</p>	10		
9	<p>Hole for pipe not exceeding 50mm diameter through 345mm wall.</p> <p style="text-align: right;">No</p>	2		
	<p><u>Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter in:</u></p>			
10	<p>Reinforced concrete slab, beam, wall, etc. not exceeding 250mm thick.</p> <p style="text-align: right;">No</p>	6		
	<p>Carried to Collection</p>		R	
	<p>Section No. 3 Bill No. 11 Plumbing and Drainage</p>			

Section No. 3 Bill No. 11 Plumbing and Drainage				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 85 86		Amount	
<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 11 Plumbing and Drainage				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 12</u></p> <p><u>PAINTWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>PAINTWORK TO NEW WORK</u></p> <p><u>PLASTER</u></p> <p><u>Prepare and apply one coat "Plascon" plaster primer and two coats "Plascon Wall and All" paint on:</u></p> <p>1 Internal plastered walls, columns, recessed bands, etc. m2 345</p> <p>2 External plastered walls, columns, recessed bands, etc. m2 90</p> <p><u>Clean down, prepare and apply two coats "Cemcrete CreteSeal" solvent based floor sealer in strict accordance with the manufacturer's instructions on:</u></p> <p>3 Concrete floors. m2 34</p> <p><u>METAL</u></p> <p><u>Prepare and apply one coat "Plascon Zinc Phosphate" primer and two coats "Plascon Velvagio" paint on:</u></p> <p>4 Frames and linings. m2 2</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 12 Paintwork</p>			
				R

Section No. 3 Bill No. 12 Paintwork <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No 88		Amount	
	89		-----	

<p style="text-align: center;">Carried Forward to Summary of Section No. 3</p>			R	
Section No. 3 Bill No. 12 Paintwork				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 13</u></p> <p><u>PROVISIONAL SUMS</u></p> <p>The following sums and amounts are NETT.</p> <p>Under no circumstances may any Provisional Sum or P.C Item be altered.</p> <p>Unless a specific percentage mark up for attendance is indicated in the rate column, the amounts priced by the contractor for attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub-contract varies significantly.</p> <p>Provisional Sums contained herein may be omitted or reduced at the employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to the Provisional Sums pr P.C Amounts or any loss of profit related thereto.</p>			
	<p><u>ALLOW THE FOLLOWING PROVISIONAL SUMS</u></p> <p><u>HVAC INSTALLATION</u></p> <p>1 Provide the amount of R262,000.00 (Two Hundred and Sixty Two Thousand Rand) for HVAC installation executed complete.</p> <p>2 Profit on above item.</p> <p>3 Attendance on ditto.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 13 Provisional Sums</p>	<p>Item</p>	<p>%</p> <p>%</p> <p>R</p>	<p>262,000.00</p>

<u>SECURITY AND DATA INSTALLATION</u>					
4	Provide the amount of R152,000.00 (One Hundred and Fifty Two Thousand Rand) for security and data installation executed complete.	Item		152,000.00	
5	Profit on above item.		%		
6	Attendance on ditto.		%		
<u>FIRE PROTECTION</u>					
7	Provide the amount of R10,000.00 (Ten Thousand Rand) for fire protection installed complete.	Item		10,000.00	
8	Profit on above item.		%		
9	Attendance on ditto.		%		
<u>LABORATORY BENCHES</u>					
10	Provide the amount of R60,000.00 (Sixty Thousand Rand) for joinery fittings installed complete.	Item		60,000.00	
11	Profit on above item.		%		
12	Attendance on ditto.		%		
<u>WET SERVICES</u>					
13	Provide the amount of R12,000.00 (Twelve Thousand Rand) for wet services installed complete.	Item		12,000.00	
14	Profit on above item.		%		
15	Attendance on ditto.		%		
<u>FIRE DETECTION</u>					
16	Provide the amount of R12,000.00 (Twelve Thousand Rand) for lockers installed complete.	Item		12,000.00	
17	Profit on above item.		%		
Carried to Collection					
			R		
Section No. 3					
Bill No. 13					
Provisional Sums					

SECTION SUMMARY - 10th Floor Pharmaceutical Research Laboratory		Page No	Amount
Bill No			
1	Alterations	62	
2	Concrete, Formwork and Reinforcement	65	
3	Masonry	68	
4	Waterproofing	71	
5	Carpentry and Joinery	72	
6	Ceilings, Partitions and Access Flooring	73	
7	Floor Coverings	74	
8	Ironmongery	75	
9	Metalwork	81	
10	Plastering	84	
11	Plumbing and Drainage	87	
12	Paintwork	90	
13	Provisional Sums	94	
	Carried to Final Summary		R
	Section No. 3		

<u>FINAL SUMMARY :</u>	
Preliminaries	R
Building Works Section Summary : Surgical Skills Training Unit	R
Building Works Section Summary : Pharmaceutical Research Laboratory	R
Sub-Total 1 : Building Works per Annexure 3	R
Electrical Installation Total per Annexure 4 : Surgical Skills Training Unit	R
Electrical Installation Total per Annexure 4 : Pharmaceutical Research Laboratory	R
Profit on Electrical Installation (only)	R
Attendance on Electrical Installation (only)	R
Sub-Total 2 : Electrical Installation per Annexure 4	R
Sub-Total 3 : (Sub-Total 1 + Sub-Total 2)	R
15% Value Added Tax	R
Total Carried to Form of Offer and Acceptance	R