# **Bills of Quantities- Builders Work**



ltem No		Quantity	Rate	Amount	
1	Preliminaries bill of quantities	Item			
	<b>CARRIED TO FINAL TENDER SUMMARY</b> Empty Bill - System Generated		R		
		-	-		



ltem No		Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS</u>			
	<b>NOTE:</b> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document			
	TEMPORARY BARRIERS, SCREENS, ETC.			
	Temporary barriers, screens, etc., including removal			
1	Drywall barriers 3.30m high formed of galvanised steel channel rails and studs covered on one side with 12.7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc.	n 8		
	REMOVAL OF EXISTING WORK			
	Demolish steel stairs			
2	Stairs and landings size 3000 x 2100mm wide including making good edges, etc complete	0 1		
	Breaking down and removing brickwork etc.			
3	One brick walls n	1 <sup>2</sup> 95		
	Carried to Collection		R	
	Alterations			



	Carefully taking out and removing windows, doors, including frames, etc., hand over to the Client and prepare opening for new door/window and frame				
	(new door/window and frame elsewhere measured)				
4	Timber door and steel frame, size 900 x 2100mm high overall from 230mm brick wall	No	1		
5	Timber door and steel frame, size 900 x 2400mm high overall from 230mm brick wall	No	1		
6	Timber double door and steel frame, size 1500 x 2100mm high overall from 280mm brick wall	No	1		
7	Timber double door and steel frame, size 1590 x 2400mm high overall from 230mm brick wall	No	1		
8	Glazed timber window 610 x 1336mm high	No	1		
9	Glazed timber window 981 x 2595mm including louvre panel, complete	No	1		
0	Louvre panel 1146 x 1331mm	No	1		
1	Glazed timber window 1300 x 2607mm high	No	2		
2	Glazed timber window 1700 x 2595mm including louvre panel, complete	No	1		
	Carefully take off, up or out sundry joinery work, fittings, etc. and hand over to employer				
3	Timber coffee station cupboard, 2000 x 500 x 850mm high, including disconnecting waste pipe	No	2		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc. and making good for paint finish (paint elsewhere measured)				
4	Acoustic tile suspended ceilings, including suspension grid, hangers, cornices, etc.	m²	500		
	Carried to Collection Alterations			R	



15	Stripping out cold/freezer room average size 6m² x 2.4m high and hand over to the Client	No	6		
16	Stripping out refrigeration average size 9m² x 2.4m				
17	high and hand over to the Client Stripping out spiral staircase size 1800mm diameter x	No	4		
	3150mm high and hand over to the Client	No	1		
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.				
18	Internal plaster from walls and columns	m²	40		
	Hacking up/off and removing ceramic tile floor and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.				
19	Tiles to floors	m²	496		
20	Tiles to walls	m²	923		
	Taking out and removing dumb waiter (1 flight) and make good lift shaft to receive new dumb waiter (new dumb waiter elsewhere measured)				
21	Dumb waiter	No	1		
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.				
22	50mm Screeds to falls and cross falls from cold rooms, including waterproofing	m²	85		
	Taking out and removing ironmongery				
23	Mortice lock from timber door	No	12		
24	Chromium plated door handle	No	4		
	Carried to Collectio	'n		R	
	Alterations				



R

25	Toilet roll holder	No	5	
26	Paper towel dispenser	No	3	
27	Soap dispenser	No	3	
28	Mirror	No	3	
	Taking out and removing sanitary fittings, etc including disconnecting piping for later connections			
29	Wash hand basin	No	3	
30	Vitreous china WC pan with cistern	No	5	
31	Shower	No	2	
32	Floor drain to be replaced by new (new elsewhere)	No	10	
	<b>Carried to Collection</b> Alterations			



	OPENINGS THROUGH EXISTING WALLS ETC.				
	Breaking out for and forming openings through brick walls for new windows and doors, including brick lintels, making good plaster on both sides and into reveals (new doors and making good paintwork elsewhere)				
3	Opening for door 1500 x 2100mm high through 230mm brick wall	No	1		
	BUILDING UP OPENINGS				
	Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both sides (making good paintwork elsewhere)				
1	Opening 0.90 x 2.10m high overall in one brick wall	No	1		
	MAKING GOOD OF FINISHES, ETC.				
	Making good brickwork				
5	Faces of walls where 230mm brick cross walls were removed	m	13		
	Making good plastering				
	Plastering to faces of walls and/or columns where 230mm brick cross walls were removed	m	13		
	Making good screeds				
	25mm Thick on floors where one brick walls are removed	m	19		
	Carried to Collection			R	
	Alterations				



Section No. 3		
Bill No. 1		
Alterations		
COLLECTION		
	Page	Amount
Total Brought Forward from Page No.	<b>No</b> 36	
	37	
	38	
	39	
	40	
Carried Forward to Summary of Section No. 2 Alterations		R
Allerations		



ltem No		Unit	Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK				
	<u>BILL No. 2</u>				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	<b>NOTE:</b> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document				
	SUPPLEMENTARY PREAMBLES				
	<u>Trade names</u>				
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent				
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	CONCRETE SUNDRIES				
	PVC sleeves				
1	50mm Diameter sleeves through not exceeding 300mm concrete wall	No	2		
	<b>Carried to Collection</b> Concrete, Formwork & Reinforcement			R	
	l l		I	I	I I



2	125mm Diameter sleeves through not exceeding 300mm slab	No	2		
	<b>Carried to Collection</b> Concrete, Formwork & Reinforcement			R	



	CORE DRILLING PROCEDURE				
	1. Existing CORE DRILLING PROCEDURE				
	1. Existing Down stand Beams or Suspended Slabs				
	The following procedure must be adopted for all core drilling :				
	a) The proposed positions to be agreed with the Engineer in writing.				
	b) The position of the core is to be marked by the contractor.				
	<u>c) The beam/slab is to be scanned on both faces to determine the position of any embedded reinforcement (stirrups, spanning steel)</u>				
	d) A pilot hole is to be drilled using an 8mm bit.				
	<u>e) The Engineer is to inspect and adjust the position of the pilot hole accordingly. Beams or Suspended Slabs</u>				
	The following procedure must be adopted for all core drilling :				
	a) The proposed positions to be agreed with the Engineer in writing.				
	b) The position of the core is to be marked by the contractor.				
	<u>c) The beam/slab is to be scanned on both faces to determine the position of any embedded reinforcement (stirrups, spanning steel)</u>				
	d) A pilot hole is to be drilled using an 8mm bit.				
	e) The Engineer is to inspect and adjust the position of the pilot hole accordingly.				
3	Core Drill Through 225mm thick Reinforced concrete slab, beam, wall, etc.	No	10		
	<b>Carried to Collection</b> Concrete, Formwork & Reinforcement			R	



Section No. 3				
Bill No. 2				
Concrete, Formwork & Reinforcement				
COLLECTION				
Total Brought Forward from Page No.	Page         No         42         43         44		Amount	
<b>Carried Forward to Summary of Section No. 2</b> Concrete, Formwork & Reinforcement		R		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 3</u>					
	MASONRY					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
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	SUPPLEMENTARY PREAMBLES					
	Sizes in descriptions					
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick					
	<u>Samples</u>					
	Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of six units. Samples of building units to be used in walls described as "load bearing" shall consist of thirty units from every thirty thousand units delivered to site					
	Carried to Collection			R		_
	Masonry					-



	Building in of conduits					
	Tenderers are to note that all conduiting must be built-in, and that no chasing for conduits will be accepted unless authorised in writing by the Project Manager on behalf of the Client. Hence, it is the responsibility of the tenderer to allow for the sequencing of work so that the building in of conduiting can be achieved					
	<u>Trade names</u>					
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	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer					
	SUPERSTRUCTURE					
	Brickwork of NFP burnt clay bricks (14-20 MPa nominal compressive strength) in Class II mortar					
1	Half brick walls	m²	20			
2	One brick walls	m²	107			
	Brickwork reinforcement					
3	75mm Wide reinforcement built in horizontally	m	57			
4	150mm Wide reinforcement built in horizontally	m	314			
	Prestressed concrete lintels					
5	110 x 70mm Lintels in lengths not exceeding 3m	m	3			
6	150 x 70mm Lintels in lengths not exceeding 3m	m	3			
	Carried to Collection			R		
	Masonry					Γ
					1	1



Section No. 3				
Bill No. 3				
Masonry				
COLLECTION				
Total Brought Forward from Page No.	<b>Page</b> <b>No</b> 46 47		Amount	
<b>Carried Forward to Summary of Section No. 2</b> Masonry		R		



ltem No		Unit	Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK				
	<u>BILL No. 4</u>				
	<u>WATERPROOFING</u>				
	<b>NOTE:</b> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document				
	SUPPLEMENTARY PREAMBLES				
	<u>Waterproofing</u>				
	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				
	<u>Trade names</u>				
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent				
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	Carried to Collection			R	
	Waterproofing				



One layer of 375 micron embossed damp proof course well lapped at joints and intersections bedded and joined in cement mortar				
In walls	m²	11		
DAMPPROOFING OF WALLS AND FLOORS				
Cementitious waterproofing system strictly in accordance with the manufacturer's specification				
Shower walls	m²	156		
On floors to falls and currents	m²	85		
Shower floors to falls and currents	m²	2		
Turn-ups 150mm high	m	8		
Sealing edges to brickwork or concrete, including trowelled mastic bead	m	8		
Flashing strips 200mm girth at turn-ups, including sealing top edges into grooves (grooves elsewhere measured) with mastic	m	8		
JOINT SEALANTS, ETC.				
Approved silicone pointing, etc.				
5 x 5mm Fillet joints	m	396		
Carried to Collection			R	
Waterproofing				



Section No. 3				
Bill No. 4				
Waterproofing				
COLLECTION				
Total Brought Forward from Page No.	Page           No           49           50		Amount	
<b>Carried Forward to Summary of Section No. 2</b> Waterproofing		R		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 5</u>					
	CARPENTRY AND JOINERY					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document					
	SUPPLEMENTARY PREAMBLES					
	Joinery					
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc					
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes					
	<u>Fixing</u>					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete					
	Decorative laminate finish					
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish					
						_
	Carried to Collection			R		_
	Carpentry and Joinery					



## Trade names Items, materials or methods to be used, specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent Proof as to the suitability of the alternate product/s offered shall rest with the tenderer DOORS, ETC. Doors as per the door schedule referred to, in the Architect's drawings no. WC015 - 700 issued with the bills of quantities Solid core flush panel doors with concealed hardwood edges all round, with 3,2mm timber veneer (wood type) covering to both sides 1 44mm Thick door 813 x 2032mm high (Type D01 T4-001) No 2 2 44mm Thick ons-and half double door 1500 x 2032mm high (Type D01 T0-001) No **FITTINGS** General The following cupboard fittings are measured as complete units, ie., the components of the units are not separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, nailing, screwing with sunk screws, edge strips, decorative laminates, glass, ironmongery, metalwork, paint or varnish finish, etc., and silicone sealant against all wall and floor surfaces **Carried to Collection** R Carpentry and Joinery



	The descriptions of all fittings contain a reference to the applicable Architect's drawing and tenderers are referred to these drawings for the full specification and detailing of the various fittings Prices will be deemed to include for everything necessary to complete the installation of the fittings as depicted on the drawings and no extras in this regard will be entertained				
	Joinery to Coffee Area - Mark's Kitchen excluding work tops as described				
3	Floor unit, size 1936 x 992 x 900mm high overall with cut out for and including reusing existing 1500 x 20mm drain channel complete as drawing (Dwg Ref. WC015-500)	No	1		
	Floor unit, size 1953 x 992 x 900mm high overall, complete as drawing (Dwg Ref. WC015-500)	No	1		
	Stone work tops				
4	Provide the prime cost amount of Ten Thousand Rand (R10000.00) for supplying and installing of stone work tops		Sum		10 000.00
5	Profit		ltem		
	Carried to Collection Carpentry and Joinery			R	



Section No. 3				
Bill No. 5				
Carpentry and Joinery				
COLLECTION				
Total Brought Forward from Page No.	<b>Page</b> <b>No</b> 52 53 54		Amount	
<b>Carried Forward to Summary of Section No. 2</b> Carpentry and Joinery		R		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 6</u>					
	CEILINGS, PARTITIONS AND ACCESS FLOORING					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
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	SUPPLEMENTARY PREAMBLES					
	<u>Descriptions</u>					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere					
	Proprietary suspended ceilings					
	Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognizance thereof)					
	<b>Carried to Collection</b> Ceilings, Partitions and Access Flooring			R		_
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#### TENDER NO : CPT 1001/24 CAPE TOWN : PARLIAMENTARY PRECINCT UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

#### <u>Bulkheads</u>

Bulkheads are those areas of the ceiling which are at a level differing from the general ceiling in a particular room or area and which generally occur along the perimeter of the room or area. Their purpose is either to conceal services or to create an architectural feature by changing levels.

#### <u>Trade names</u>

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Proof as to the suitability of the alternate product/s offered shall rest with the tenderer

**Carried to Collection** 

Ceilings, Partitions and Access Flooring



	SUSPENDED CEILINGS				
	1200 x 600 x 15mm acoustic pre-painted revealed edge-lay-in acoustic ceiling tile of wet-formed mineral fibre with acoustically transparent membrane, finished with acoustically transparent membrane with factory-applied latex paint Fire Performance.Class A: ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less. Smoke Developed Index of 50 or less (UL labeled).ASTM E1264 Classification Type IV, Form 2, Pattern E; Fire Class A. Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. s on pre-painted exposed tee suspension system, including main and cross tees, necessary hangers, grids, etc., all in strict accordance with the manufacturer's specifications and recommendations				
1	Horizontal ceilings suspended not exceeding 1000mm below concrete soffits	m²	622		
2	Extra over ceiling for marking and forming holes for down lighters, sprinkler heads, fire detector unit etc. not exceeding 150mm diameter	No	42		
3	Extra over ceilings for opening 600 x 600mm for light fittings including additional supports	No	42		
	9,5mm Rhino gypsum plasterboard ceilings with 63mm wide strips of mesh scrim nailed over joints and the whole finished with gypsum skim plaster trowelled to a smooth polished surface on patent concealed suspension system, all in strict accordance with the manufacturer's specifications and recommendations				
4	Vertical bulkheads	m²	7		
	<b>Carried to Collection</b> Ceilings, Partitions and Access Flooring			R	



	Cornices to suspended ceilings				
	Cornices to include approved silicone joint sealant at junction of ceiling cornice with plastered wall				
5	Aluminium pre-painted cornices, plugged	m	348		
6	Pre-painted corner trims, plugged	m	30		
7	45 x 35mm Plaster trim, plugged	m	30		
					<b> </b>
	Carried to Collection			R	
	Ceilings, Partitions and Access Flooring				



Section No. 3				
Bill No. 6				
Ceilings, Partitions and Access Flooring				
COLLECTION				
Total Brought Forward from Page No.	Page No 56 57 58 59		Amount	
Carried Forward to Summary of Section No. 2 Ceilings, Partitions and Access Flooring		R		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 7</u>					
	IRONMONGERY					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
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	SUPPLEMENTARY PREAMBLES					
	<u>Finishes to ironmongery</u>					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:					
	BS - Satin bronze lacquered CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized bornze AG - Anodized black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded					
	Carried to Collection Ironmongery			R		



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	HINGES, BOLTS, ETC.				
1	150mm Stainless steel flush bolt	No	1		
2	300mm Stainless steel flush bolt	No	1		
	LOCKS				
3	Multi-lever sash lock with lock case, stainless steel for end	No	8		
4	Multi-lever sash lock with lock case, stainless steel for end and 60mm double rebated meeting style	No	1		
5	Keyhole escutcheon	Pairs	9		
	<u>HANDLES</u>				
6	Square satin finish solid stainless steel spring loaded lever handles	Pairs	9		
	PUSH AND KICKING PLATES				
7	250mm Wide x 800mm high x 1,2mm thick stainless steel plate 304 grade, fixed to face of door. Plate to have no sharp edges or corners.	No	4		
8	250mm Wide x 300mm high x 1,2mm thick stainless steel plate 304 grade, fixed to face of door. Plate to have no sharp edges or corners.	No	2		
	Carried to Collection			R	



9	250mm Wide x 1200mm high x 1,2mm thick stainless steel plate 304 grade, fixed to face of door. Plate to have no sharp edges or corners.	No	2		
	DOOR CLOSERS				
10	Overhead door closer non-hold open multi-strength	No	3		
	<u>SUNDRIES</u>				
11	Stainless steel door stop	No	6		
	BATHROOM FITTINGS				
	Approved				
12	500ml Stainless steel soap dispenser, plugged	No	3		
13	Auto-towel paper dispenser manufactured from 0.7 clear coat enamel finish stainless steel wall- mounted automatic system lockable dispenser for	NI-	2		
	added security	No	3		
14	Toilet roll holder with metal chrome plated frame and timber roll fixed to wall with screws	No	5		
15	372 x 169 x 690mm High Stainless steel waste container, plugged	No	3		
16	200 x 100 x 35mm Wall-mounted rectangular soap basket, material 304-grade stainless steel	No	2		
17	Standard stainless steel towel hook	No	2		
	Approved				
18	450 x 750mm High Urinal dividers urinal screens (colour: standard) manufactured using 12mm compact high-pressure laminate, fixed to wall with aluminium extrusion	No	2		
	Carried to Collection			R	
	Ironmongery				



Section No. 3				
Bill No. 7				
Ironmongery				
COLLECTION				
Total Brought Forward from Page No.	Page           61           62           63		Amount	
Carried Forward to Summary of Section No. 2		R		
Ironmongery				



Item Unit Quantity Ro No	
SECTION 2 - BUILDER'S WORK	
BILL No. 8	
<u>METALWORK</u>	
NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill	
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SUPPLEMENTARY PREAMBLES	
Descriptions	
Descriptions of bolts shall be deemed to include nuts and washers	
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete	
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described	
Descriptions of galvanised mild steel shall be deemed to mean hot dipped galvanised after fabrication	
Carried to Collection	R
Metalwork	



	<u>Trade names</u>				
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	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	GALVANISED STEEL MINOR WORK				
	Existing concrete beam support				
1	280 x 95 x 41.2kg/m Channel beam fixed at ends and to side side of existing concrete beam	kg	189		
	<u>Bolts</u>				
2	16mm Chemical anchor with loose bolt	No	22		
	GALVANIZED PRESSED STEEL DOOR FRAMES				
	<u>1.2mm Single rebated frames suitable for 230mm cavity wall brick walls</u>				
3	Frame for door 813 x 2032mm high	No	2		
4	Frame for door 1500 x 2032mm high	No	1		
	ALUMINIUM LOUVRE UNITS				
	Scope of work				
	The work under the heading "ALUMINIUM LOUVRES, ETC." includes for the supply, setting up, building in, protection, cleaning, sub-frames and/or lugs, polychord and polyurethane sealant all round on both sides, fixing in position and ironmongery to louvres				
				C	
	Carried to Collection Metalwork			R	



	Aluminium louvres as per the aluminium specification referred to in the Architects' drawing no. WC015 - 700				
	Approved powder coated gloss white perforated aluminium louvre units, bolted to and including aluminium sub-frames				
5	1146 x 1331mm High louvre screen	No	1		
	Carried to Collection			R	
	Metalwork				



	ALUMINIUM SHOWER SCREENS AND DOORS				
	Approved framed shower doors and screens with swing doors, cleats, stops, etc. and toughened frosted safety glass, fixed to tiled walls				
6	Corner unit 900 x 1200 x 1800mm high	No	2		
	ALUMINIUM WINDOWS, DOORS, ETC.				
	The work under the heading "ALUMINIUM WINDOWS, DOORS, SHOPFRONTS, ETC" includes for the supply, setting up, building in, protection, cleaning, sub-frames and/or lugs, polychord and polyurethane sealant all round on both sides, fixing in position, ironmongery and glazing of windows				
	Aluminium windows, ironmongery and glazing as per the aluminium specification referred to in the Architect's drawings no. WC015 - 700 issued with the bills of quantities				
	Approved top-hung casement aluminium windows (Colour : White) with 6.38mm clear laminated safety glass, plugged to brickwork or concrete				
7	Window 610 x 1336mm (Type W01)	No	1		
8	Window 981 x 2595mm including louvre panel, complete (Type W03)	No	1		
9	Window 1300 x 2607mm high (Type W02)	No	2		
10	Window 1700 x 2595mm including louvre panel, complete (Type W04)	No	1		
	Carried to Collection			R	
	Metalwork				
			I		



Section No. 3				
Bill No. 8				
Metalwork				
COLLECTION				
Total Brought Forward from Page No.	<b>Page</b> No 65 66 67 68		Amount	
Carried Forward to Summary of Section No. 2 Metalwork		R		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 9</u>					
	PLASTERING					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document					
	TRADE NAMES					
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent					
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer					
	<u>SCREEDS</u>					
	Screeds on concrete					
1	25mm Thick on floors and landings	m²	707			
	Screeds wood floated on concrete					
2	Average 60mm thick on floors to falls and currents	m²	85			
						_
	Carried to Collection			R		_
	Plastering					-
	l l		I		I I	



	INTERNAL PLASTER				
	Cement plaster on brickwork				
3	On walls	m²	88		
4	On narrow widths	m²	27		
	Gypsum skim plaster on concrete				
5	On ceilings	m²	24		
	EXTERNAL PLASTER				
	Cement plaster on concrete				
6	On narrow widths	m²	6		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
7	30 x 3mm Flat section brass dividing strips between different floor finishes	m	3		
	Carried to Collection Plastering			R	



Section No. 3				
Bill No. 9				
Plastering				
COLLECTION				
Total Brought Forward from Page No.	Page No 70 71		Amount	
Carried Forward to Summary of Section No. 2 Plastering		R		



ltem No		Unit	Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK				
	<u>BILL No. 10</u>				
	<u>TILING</u>				
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document				
	SUPPLEMENTARY PREAMBLES				
	All tiles to be supplied as per manufacturer's sizes (no cutting to size allowed). Should cutting be unavoidable the Principal Agent's approval is required				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere) or screeds (screeds 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 cement plaster bedding				
	Descriptions of all tiling are deemed to include for all straight cutting and circular cutting around all sanitary ware and pipes not exceeding 150mm diameter				
	Carried to Collection			R	
	Tiling				



	<u>Trade names</u>				
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent				
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	WALL TILING				
	100 x 200mm White ceramic tiles (Prime Cost Amount of R250/m <sup>2</sup> delivered to site, excluding VAT) fixed with approved adhesive to plaster (plaster elsewhere measured) and 2-4mm continuous joints in both directions and rubbed with white epoxy grout				
1	On walls	m²	592		
2	On walls in narrow widths	m²	2		
	200 x 200mm White ceramic tiles (Prime Cost Amount of R200/m <sup>2</sup> delivered to site, excluding VAT) fixed with approved adhesive to plaster (plaster elsewhere measured) and 2-4mm continuous joints in both directions and rubbed with white epoxy grout				
3	On walls	m²	156		
4	On walls in narrow widths	m²	2		
	Carried to Collection			R	T
	Tiling				T



	FLOOR TILING				
	<u>600 x 600mm Ceramic tiles (Prime Cost Amount of R400/m<sup>2</sup> delivered to site, excluding VAT) fixed with approved adhesive to wood floated screeds (screeds elsewhere measured) and flush pointed with waterproof tinted jointing compound</u>				
5	On floors and landings	m²	60		
6	Skirting 100mm high	m	396		
	Carried to Collection			R	
	Tiling			ĸ	—



	SUNDRIES			
	Approved aluminium			
7	Straight edge trim	m	456	
	Stainless steel or any equal approved			
8	30 x 10mm Tile-in external corner protector	m	82	
	<u>Attic Stock</u>			
	The tenderer must allow for the supply, off-load and hand over of attic stock to the client			
9	100 x 200mm Ceramic tiles	m²	59	
10	200 x 200mm Ceramic tiles	m²	16	
11	600 x 600mm Ceramic tiles	m²	12	
	Carried to Collection			R
	Tiling			



Section No. 3				
Bill No. 10				
Tiling				
COLLECTION				
Total Brought Forward from Page No.	Page         73         74         75         76		Amount	
Carried Forward to Summary of Section No. 2		R		<u> </u>
Tiling				



	Unit	Quantity	Rate	Amount
SECTION 2 - BUILDER'S WORK				
<u>BILL No. 11</u>				
PLUMBING AND DRAINAGE (PROVISIONAL)				
NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document				
SUPPLEMENTARY PREAMBLES				
uPVC pipes and fittings				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings				
<u>Gratings, covers, etc</u>				
Gratings, covers, etc shall be as manufactured by "Besaans du Plessis Foundries", unless otherwise described				
Stainless steel basins, sinks, wash troughs, urinals, etc				
Stainless steel for economy basins, domestic sinks, worktops and wash troughs shall be type 430 (17/0)				
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)				
Carried to Collection	1		R	
Plumbing and Drainage				



#### TENDER NO : CPT 1001/24 CAPE TOWN : PARLIAMENTARY PRECINCT UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Stainless steel for laboratory sinks, photographic equipment, etc shall be type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable Flush pans Flush pans shall have straight or side outlets and "P" or "S" traps as necessary Lead pipes and traps All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel uPVC pressure pipes and fittings Pipes for water supply shall be of the class described Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings 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 **Carried to Collection** Plumbing and Drainage



#### TENDER NO : CPT 1001/24 CAPE TOWN : PARLIAMENTARY PRECINCT UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

#### "Polycop" polypropylene pipes

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 described

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

All pipe diameters are nominal external

#### Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. 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

#### Reducing fittings

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

**Carried to Collection** 

Plumbing and Drainage



#### TENDER NO : CPT 1001/24 CAPE TOWN : PARLIAMENTARY PRECINCT UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

#### <u>Chasing</u>

Descriptions of pipes are deemed to include for chasing

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with relevant overlaps for specific diameters of pipes

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc

Prices for wrapping of pipes shall include for all work as described to couplings in the length

#### <u>General</u>

Descriptions of wc pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors separately measured)

Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces

Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes

Descriptions of overflow pipes where measured number, shall be deemed to include joints to cisterns and splay cut ends

#### **Carried to Collection**

Plumbing and Drainage



	<u>Trade names</u>				
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent				
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	SANITARY FITTINGS				
	Approved stainless steel				
1	Double bowl vegetable sink size 1850 x 650 x 910mm with PVC grease type waste	No	1		
	Approved				
2	510 x 405mm "Hibiscus" (code 702303)or equal approved white basin with one tap hole, bolted to wall with two 10mm bolts with and including 685mm high pedestal	No	3		
3	Low level wc suite comprising "Aquasave" or equal approved pan with double flap heavy duty plastic seat and cistern with flush pipe, complete	No	5		
4	Alpine white vitreous china wall hung back inlet bowl urinal as size 305 x 290mm with chromium plated domical grating and fixed to tiled wall with and including two approved hanger brackets.	No	2		
5	Shower tray and support frame	No	2		
	Carried to Collection			R	
	Plumbing and Drainage				



	WASTE UNIONS ETC.				
	Approved chromium plated				
6	62mm Diameter slotted basin waste with back nut, plug and stay, complete	No	4		
	TRAPS, ETC.				
	Approved cast brass				
7	40mm 373 Shower trap with 75mm grating	No	2		
	TAPS, VALVES, ETC.				
	Approved				
8	15mm Stopcock	No	56		
9	15mm Pillar cock	No	71		
10	Shower set with under tile stop taps with 15mm copper inlets, set includes two stella taps with flanged shower arm and shower head	No	70		
11	Overhead pre-rinse spray unit with c/w bracket on 15mm taps	No	69		
	SANITARY PLUMBING				
	Supply and Install HDPE pipe including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2: 2004				
12	56mm Pipes	m	100		
	Extra over HDPE soil and vent pipes for fittings				
13	56mm 90° Elbow	No	136		
14	56mm 45° Elbow	No	136		
15	56mm 90° Equal T-piece	No	136		
				_	_
	Carried to Collection Plumbing and Drainage			R	



16	56mm Electro-fussion joint	No	136		
17	56mm Electro-fussion butt welded joint	m	136		
18	56mm "P" trap complete with coupling clamps.	No	55		
	FLOOR DRAINS & WASTE TRAPS				
19	Supply and Install Herbish HB200H or equal and approved floor drain	No	8		
20	Supply and Install Herbish HB200V Floor Drain	No	6		
	WATER SUPPLIES				
	<b>Note :</b> The rates for taps, valves, fittings, etc., are to include for all connections to the piping, including any necessary adapters, special jointing, etc.				
	Class II Copper Pipes with Brass Compression fittings				
21	15mm Pipe in chase	m	10		
	Extra over Class II copper pipes for Conex Compression fittings				
22	15mm Fittings	No	10		
	Carried to Collection			R	
	Plumbing and Drainage				
					1



Section No. 3		
Bill No. 11		
Plumbing and Drainage		
COLLECTION		
	Page	Amount
Total Brought Forward from Page No.	<b>No</b> 78	
	79	
	80	
	81	
	82	
	83	
	84	
Carried Forward to Summary of Section No. 2		R
Plumbing and Drainage		



ltem No		Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK			
	<u>BILL No. 12</u>			
	KITCHEN EQUIPMENT			
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document			
	<u>Trade names</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent			
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer			
	General			
	The following equipments are measured as complete units, ie., the components of the units are not separately measured. The descriptions, therefore, of such units shall be deemed to include all supply, delivery, installation of components, assembling, housing, notching, glueing, nailing, screwing, edge strips, ironmongery, metalwork, testing and commissioning, etc., and silicone sealant against all wall and floor surfaces			
	Carried to Collection Kitchen Equipment		R	
	86			



1	The positions of all equipment are indicated to the Architect's drawing no. WC 15-103 D and tenderers are referred to this drawing Prices will be deemed to include for everything necessary to complete the installation of the equipment as depicted on the drawings and no extras in this regard will be entertained <b>DEMOLITIONS</b> Carefully take out and hand over to Client existing kitchen equipment, complete and replace with the below measured equipment <b>MARKS KITCHEN</b> <b>Kitchen Area</b>		ltem		
2	2.5 Glass door under fridge	No	4		
3	12 Pan combi steamer with water filler stacked	No	1		
4	20 Pan combi steamer with water filter	No	1		
5	2 Pan combi steamer with water filler stacked with 20 pan combi steamer with water filter	No	1		
6	Approved rack advancing dishwasher	No	1		
7	Left-entry facing hood type dish washing machine	No	1		
8	Waste disposal unit	No	1		
9	600 Piece mobile crockery rack	No	2		
10	2 x 20 Litres fryer	No	1		
11	8 Burner char-griller	No	1		
12	4-Burner gas range with oven	No	2		
	<b>Carried to Collection</b> Kitchen Equipment			R	



13	Electric heavy duty salamander with lever adjustable level grid	No	1
14	12kg Potato peeler with timer	No	1
15	20 Litre planetary mixer	No	1
	Breakfast Area		
16	4-Burner gas boiling stainless steel table, fitted with a stainless steel full-width crumb tray on four levelling device legs	No	1
17	1780mm long stainless steel under bar table with splash back	No	1
18	5-Burner gas flat top half-ribbed griller on counter stand	No	1
19	iCombi compact and including stand	No	1
20	Wall-mounted Hydroboil drip tray including stainless steel drain	No	1
	90 PLEIN STREET		
21	10 Pan combi steamer with and including stacking kit	No	1
22	iCombi Classic 202 steamer with and including stacking kit	No	1
23	1780 x 650mm Long 2.5 door under bar fridge	No	2
24	Approved rack conveyor dishwasher	No	1
25	90 Degrees size 1300mm long x 1300mm high roller outlet table	No	1
26	620 x 1650mm Long roller outlet table	No	1
27	600 x 1200 x 1450mm High 4-tier stainless steel shelving	No	3
	<b>Carried to Collection</b> Kitchen Equipment		



28	12kg Potato peeler with timer	No	1
29	6-Open burner gas range c/w oven	No	1
30	20 Litre planetary mixer	No	1
	NCOP		
	<u>Ground Floor</u>		
31	Stainless steel 4.5-door under bar fridge	No	1
32	Service existing bain maries	No	3
	<u>First Floor</u>		
33	1200 Hood type dishwasher	No	2
34	145 Litre three solid tops stove	No	2
35	Pedestal stainless steel band saw mark 7HQ 1.5kw 380v 3ph	No	1
36	6x1/2 Pan capacity steamer with and including stacking kit	No	2
37	iCombi Classic 102 steamer with and including stacking kit	No	2
38	Repairs to "Rational iCombi Classic 101" or equal approved 10 pan combi steamer with and including stacking kit	No	2
	Carried to Collection Kitchen Equipment		



Section No. 3		
Bill No. 12		
Kitchen Equipment		
COLLECTION		
	Page	Amount
Total Brought Forward from Page No.	<b>No</b> 86	
	87	
	88	
	89	
Carried Forward to Summary of Section No. 2		R
Kitchen Equipment		



ltem No		Unit	Quantity	Rate	Amount	
	SECTION 2 - BUILDER'S WORK					
	<u>BILL No. 13</u>					
	<u>GLAZING</u>					
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill					
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document					
	SUPPLEMENTARY PREAMBLES					
	NOTE: Glass to be installed according to the requirements of SABS Code 0137					
	<u>Trade names</u>					
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent					
	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer					
	Carried to Collection Glazing			R		=



	GLAZING TO STEEL WITH PUTTY				
	MIRRORS, ETC.				
	4mm Silvered float glass copper backed mirrors with 4mm bevelled edges, fixed with chromium plated dome headed mirror screws with rubber buffers to plugs				
1	Mirror size 500 x 700mm high	No	3		
	Claring			R	
	Glazing				



Section	No. 3				
Bill No.	13				
Glazing	9				
	CTION				
Total Bi	rought Forward from Page No.	Page No 91 92		Amount	
	Carried Forward to Summary of Section No. 2		R		
Glazin					



ltem No		Unit	Quantity	Rate	Amount
	SECTION 2 - BUILDER'S WORK				
	<u>BILL No. 14</u>				
	PAINTWORK				
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
	Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW 371-A) and Construction Works: Particular Specification (PW371-B) before pricing this document				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Descriptions of paintwork shall be deemed to include for all cutting in				
	<u>Specialist floor coverings</u>				
	All specialist floor coverings shall be executed in strict accordance with the manufacturer's instructions				
	Paint specifications				
	All painting shall be done in accordance with supplier's specifications				
	<u>Trade names</u>				
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Principal Agent				
	<b>Carried to Collection</b> Paintwork			R	



	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	PAINTWORK, ETC. TO NEW WORK ON				
	One coat plaster primer and two coats low sheen acrylic paint on				
1	On internal walls	m²	42		
2	On ceilings and beams	m²	24		
	SKIMMED PLASTER BOARD SURFACES WITH				
	One coat plaster primer and two coats low sheen acrylic paint on				
3	On ceilings, bulkheads and cornices	m²	37		
	FLOOR COATING				
	Approved food safe fast-curing resin system floor coating (Colour : Dusty Grey) spread rate 4-5m <sup>2</sup> to a minimum of 0.5mm thickness, applied as to manufacturer's instructions				
4	On screeded floor	m²	646		
	METAL SURFACES WITH				
	One coat metal primer, one coat universal undercoat and two coats satin paint on galvanized steel				
5	On door frames	m²	6		
6	On galvanised steel beam	m²	4		
	<b>Carried to Collection</b> Paintwork			R	



	WOOD SURFACES WITH					
	One coat white wood prime, one coat universal undercoat and two coats enamel paint					
7	On doors	m²	12			
	PAINTWORK, ETC. TO PREVIOUSLY PAINTED WORK ON					
	FLOATED PLASTER SURFACES WITH					
	Prepare and apply one coat hi-cover primer and two coats wallbrite low sheen acrylic coating to approved colour					
8	On internal walls	m²	136			
	Paint to match existing					
9	On external walls	m²	15			
	METAL SURFACES WITH					
	One coat metal primer, one coat universal undercoat and two coats satin paint on galvanized steel					
10	On door frames	m²	52			
	WOOD SURFACES WITH					
	One coat white wood prime, one coat universal undercoat and two coats enamel paint					
11	On doors	m²	143			
	Carried to Collection			R		
	Paintwork					
	l l	I			I	I



Section No. 3		
Bill No. 14		
Paintwork		
COLLECTION		
Total Brought Forward from Page No.	Page           No           94           95           96	Amount
<b>Carried Forward to Summary of Section No. 2</b> Paintwork		R



Bill No	SECTION SUMMARY - Section 2: Builder's Work	Page No		Amount
1	Alterations	41		
2	Concrete, Formwork & Reinforcement	45		
3	Masonry	48		
4	Waterproofing	51		
5	Carpentry and Joinery	55		
6	Ceilings, Partitions and Access Flooring	60		
7	Ironmongery	64		
8	Metalwork	69		
9	Plastering	72		
10	Tiling	77		
11	Plumbing and Drainage	85		
12	Kitchen Equipment	90		
13	Glazing	93		
14	Paintwork	97		
	CARRIED TO FINAL TENDER SUMMARY		R	



ltem No		Quantity	Rate	Amount
	SECTION 3 - PROVISIONAL SUMS			
	<u>BILL NO. 1</u>			
	PROVISIONAL SUMS			
	The Tenderer is referred to the relevant Clauses in the Model Preambles for Trades (2008) and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	SELECTED SUB-CONTRACT AMOUNTS			
	The following amounts are for goods and services, etc., supplied erected, fixed and installed complete. The following amounts are for tenders for various nominated/selected contractors and the contractor must price the appropriate profit and attendance on all items accordingly.			
	<u>Alterations</u>			
1	Allow the amount of R 60 000.00 (Sixty Thousand Rands) for alterations and demolitions to later detail to be spent in whole or in part or omitted from the contract	Sum		60 000.00
2	Profit on above item	ltem		
3	Attendance on above item	ltem		
	Asbestos Removal			
4	Allow the amount of R 30 000.00 (Thirty Thousand Rands) for the removal of asbestos by an authorised asbestos removal contractor, to be spent in whole or in part or omitted from the contract	Sum		30 000.00
5	Profit on above item	Item		
6	Attendance on above item	Item		
	<b>Carried to Collection</b> Provisional Sums		R	
1		I	I	I I



Joinerv	Fittinas	and	Steel	Shelving
			01001	enering.

	Joinery Fittings and Steel Shelving				
7	Allow the Amount of R 100 000.00 (One Hundred Thousand Rand) for supply and installation of additional joinery fittings and steel shelving to later detail to be spent in whole or in part or omitted from the contract	Sum		100 000.0	0
8	Profit on above item	ltem			
9	Attendance on above item	ltem			
	Signage				
10	Allow the amount of R 50 000(Fifty Thousand Rands) for Signage Installation	Sum		50 000.0	0
11	Profit on above item	ltem			
12	Attendance on above item	ltem			
	Builders work in connection with services				
13	Allow the Amount of R 50 000.00 (Fifty Thousand Rand) for builders work in connection with plumbing, Electrical, Electronic, Mechanical and Fire services to later detail to be spent in whole or in part or omitted from the contract.	Sum		50 000.0	0
14	Profit on above item	Item			
15	Attendance on above item	Item			
	Lift Installation				
16	Allow the Amount of R 200 000.00 (Two Hundred Thousand Rand) for Dumb Waiter Installation	Sum		200 000.0	0
17	Profit on above item	Item			
18	Attendance on above item	Item			
	<b>Carried to Collection</b> Provisional Sums		R		_



	Gas Installation			
19	Allow the Amount of R150 000.00 (One Hundred and Fifty Thousand Rand) for Gas Installation	Sum		150 000.00
20	Profit on above item	ltem		
21	Attendance on above item	ltem		
	Steel Stairs and Balustrades			
22	Allow the Amount of R150 000.00 (One hundred and Fifty Thousand Rand) for the supply and installation of steel stairs and balustrades (including minor alterations to concrete) to later detail to be spent in whole or in part or omitted from the contract	Sum		150 000.00
23	Profit on above item	ltem		
24	Attendance on above item	ltem		
	Carried to Collection Provisional Sums		R	



Section No. 4		
Bill No. 1		
Provisional Sums		
COLLECTION		
Total Brought Forward from Page No.	Page No 99 100	Amount
	101	
CARRIED TO FINAL TENDER SUMMARY		R
Provisional Sums		



ltem No		Quantity	Rate	Amount	
	SECTION 4 - ELECTRICAL WORK				
	<u>BILL NO. 1</u>				
	LOW VOLTAGE RETICULATION (Provisional)				
	DISTRIBUTION				
	Supply, Install and connect distribution board complete with all switchgear, accessories, all fitted in the factory and tested, including delivery to site and off-loading				
1	Distribution board SB-K (See Drawing No. 33547.00/312-03 REV TO) N	0 1			
2	Distribution board SB-K2 (See Drawing No. 33547.00/312-03 REV T0) N	D 1			
3	Distribution board SB-K1 (See Drawing No. 33547.00/312-02 REV T0) N	o 1			
4	Distribution board MDB (See Drawing No. 33547.00/312-02 REV TO) N	o 1			
	CABLES AND TERMINATIONS				
	Supply and install multi-core PVC/PVC/SWA/PVC, copper conductor cable including terminations and all accessories. Cables laid in ducts or trenches, horizontal racks, cable tray or sleeves and fixing support. Cable trenches, ducts, sleeves measured elsewhere				
	From Utility to SDB-K				
5	2x185mm2 4 core cable r	n 150			
6	150mm2 ICEW r	n 150			
	Carried to Collection		R		
	Low Voltage Reticulation				-
		I	I	II I	



7	2x185mm2 4 core cable terminations	No	4
8	150mm2 ICEW terminations	No	4
	From Utility to MBD-K		
9	70mm2 4 core cable	m	50
10	50mm2 ICEW	m	50
11	70mm2 4 core cable terminations	No	2
12	50mm2 ICEW terminations	No	2
	From Utility to SBD-K1		
13	150mm2 4 core cable	m	100
14	120mm2 ICEW	m	100
15	150mm2 4 core cable terminations	No	2
16	120mm2 ICEW terminations	No	2
	From SBD-K1 to SBD-K2		
17	35mm2 4 core cable	m	30
18	25mm2 ICEW	m	30
19	35mm2 4 core cable terminations	No	2
20	25mm2 ICEW terminations	No	2
	Carried to Collection		
	Low Voltage Reticulation		
I			I



	TRUNKING				
	Supply and install cable ladder accessories and steel covers	complete with all			
21	300mm Cable Ladder		No	280	
22	300mm Horizontal/vertical elbov	V	No	2	
23	300 x 300mm Tee		No	1	
		Carried to Collectior	,		R
	Low Voltage Reticulation				K



Section No. 5		
Bill No. 1		
ow Voltage Reticulation		
COLLECTION		
otal Brought Forward from Page No.	Page           No           103           104           105	Amount
<b>Carried Forward to Summary of Section No. 2</b> Low Voltage Reticulation		R



ltem No			Quantity	Rate	Amount
	SECTION 4 - ELECTRICAL WORK				
	<u>BILL NO. 2</u>				
	<u>GENERAL PURPOSE OUTLETS AND LIGHTING</u> (Provisional)				
	CONDUIT				
	Supply and install PVC conduit complete with all accessories including couplings, bending and fixings as specified				
1	25mm - cast in concrete, built in partition, brickwork or ceiling void	m	2 430		
2	32mm - cast in concrete, built in partition, brickwork or ceiling void	m	150		
3	35mm - cast in concrete, built in partition, brickwork or ceiling void	m	330		
4	40mm - cast in concrete, built in partition, brickwork or ceiling void	m	500		
	CONDUIT BOXES				
	Supply and install conduit boxes complete with all accessories including conduit terminations				
5	60mm round, 25mm deep for 25mm PVC conduit mounted flush in wall or fixed to surface	No	109		
6	100 x 50 x 50mm steel conduit box excluding covers	No	48		
7	100 x 100 x 50mm steel conduit box excluding covers	No	132		
	Carried to Collection			R	
	General Purpose Outlets and Lighting			ĸ	



	WIRING AND CONDUCTORS			
	Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking			
8	2.5mm² Insulated Wire	m	2 440	
9	4mm² Insulated Wire	m	1 400	
0	1.5mm <sup>2</sup> B.C.E.W.	m	740	
1	2.5mm <sup>2</sup> B.C.E.W.	m	1 500	
2	2.5mm² Insulated earth wire	m	80	
	CABLES AND TERMINATIONS			
	Supply and install multi-core PVC/PVC/SWA/PVC, copper conductor cable including terminations and all accessories. Cables laid in ducts or trenches, horizontal racks, cable tray or sleeves and fixing support. Cable trenches, ducts, sleeves measured elsewhere			
	From SBD-K to 3PH Isolator			
3	16mm2 4 core cable	No	320	
ļ	10mm2 ICEW	No	320	
5	16mm2 4 core cable terminations	No	24	
6	10mm2 ICEW terminations	No	24	
	From SBD-K to 3PH Isolator			
7	10mm2 4 core cable	m	460	
8	6mm2 ICEW	m	460	
9	10mm2 4 core cable terminations	No	40	
20	6mm2 ICEW terminations	No	40	
	<b>Carried to Collection</b> General Purpose Outlets and Lighting			R



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		1		
	From SBD-K to 3PH Isolator			
21	4mm2 4 core cable	m	100	
22	2,5mm2 ICEW	m	100	
23	4mm2 4 core cable terminations	No	8	
24	2,5mm2 ICEW terminations	No	8	
	From SBD-K to 1PH Isolator			
25	6mm2 4 core cable	No	50	
26	4mm2 ICEW	No	50	
27	6mm2 4 core cable terminations	No	4	
28	4mm2 ICEW terminations	No	4	
	LIGHT SWITCHES			
	Supply, install and connect flush mounted light switch complete with cover plate and all accessories			
29	16A 1 lever 1 way	No	26	
30	16A 2 lever 1 way	No	8	
31	16A 1 lever 2 way	No	13	
32	360 degree on/off presence detector	No	3	
	Carried to Collection			
	General Purpose Outlets and Lighting			



	LUMINARIES			
	Supply, Install and connect luminaries mounted as specified, complete with lamps, control gear and all accessories			
33	Type C1, 600x600mm 30W LED, 4000K 3245LM recessed white powder coated seamless aluminium extruded frame luminary complete with low glare prismatic diffuser, 3m cabtyre and 6A pulgtop (Regent Lighting Luxon Prism or equal approved)	No	44	
34	Type C3, 600x600mm 30W LED, 4000K 3245LM recessed white powder coated seamless aluminium extruded frame luminaire complete with low glare prismatic diffuser, 3m cabtyre, 6A pulgtop and 60 minutes emergency battery backup power, (Regent Lighting Luxon Prism or equal approved)	No	29	
35	Type F1, 1278x112mm 33W LED 4000K 4883LM Surface mounted vapour proof luminaire abs base with stainless steel non corrosive clips, uv stabilised polycarbonate diffuser and 3m cabtyre. (Regent Lighting Nimbus or equal approved)	No	23	
36	Type F2, 1278x112mm 33W LED 4000K 4883LM Surface mounted vapour proof luminaire abs base with stainless steel non corrosive clips, uv stabilised polycarbonate diffuser and 3m cabtyre. Complete with 60 minutes emergency battery backup power (Regent Lighting Nimbus or equal approved)	No		RATE ONLY
37	Type I1, 16W LED 4000K, 2098LM Round ceiling mounted, black powder coated die cast aluminium body, IP66 bulkhead luminaire complete with UV stabilized high impact opal diffuser. (Regent Lighting Solo or equal approved)	No	15	
38	Type I2, 16W LED 4000K, 2098LM Round wall mounted, black powder coated die cast aluminium body, IP66 bulkhead luminaire complete with UV stabilized high impact opal diffuser. (Regent Lighting Solo or equal approved)	No	7	
	Carried to Collection			R
	General Purpose Outlets and Lighting			



39	Type EXIT, 310x310x65mm 14W LED 4000K 2584LM, wall mount exit signage luminaire with fibreglass frame, toughened glass lens green on white labelling and cut out at the bottom with perspex cover for threshold lighting and 60 minutes battery backup (Voltex E10-14WLED EMG or equal approved) SWITCHED AND UNSWITCHED SOCKET OUTLETS	No			RATE ONLY
	Supply, install and connect socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories				
40	16A 3-pin normal single switched socket and 16A 164-2 (2P+E) socket outlet combination	No	80		
41	16A 3-pin normal single switched socket and 16A 164-2 (2P+E) socket outlet combination IP65 (in yorkbox)	No	1		
42	16A 3-pin double dedicated switch socket outlet (Red)	No	2		
43	16A 3-pin dedicated single switch socket outlet (Red) on power skirting	No	3		
44	16A 3-pin normal single switch socket outlet (white) on power skirting	No	3		
45	16A 3-pin normal single switched socket with 2 x euro socket outlet combination	No	22		
46	5A unswitched socket outlet	No	51		
	ISOLATORS				
47	Supply and install Isolators mounted flush or surface on wall complete with cover plate, steel conduit box and all accessories.(Cabtree or equal approved) Three phase isolator surface mounted against soffit or wall	No	2		
	<b>Carried to Collection</b> General Purpose Outlets and Lighting			R	



48	Single phase isolator surface mounted against soffit or wall	No	19		
49	Single phase isolator recessed in wall	No	5		
50	Three phase isolator recessed in wall	No	18		
51	63A (3P+N+E 5 PIN) Three phase electrical outlet point IP44 for inside and IP65 for outside	No	18		
52	32A (2P+E) Single phase electrical outlet point IP44 for inside and IP65 for outside	No	2		
	TRUNKING				
	Supply and install wiring trunking complete with all accessories and steel covers				
53	P9000 Trunking	m	410		
54	P8000 Trunking	m	240		
	Extra on P9000 trunking for				
55	Horizontal/Vertical Elbow	No	14		
56	Тее	No	14		
57	4 Way	No	18		
58	End Cap	No	28		
59	DB-Entry	No	4		
	Extra on P8000 trunking for				
60	Horizontal/Vertical Elbow	No	9		
61	Тее	No	6		
62	4 Way	No	13		
	Carried to Collection			R	
	General Purpose Outlets and Lighting				╡



63	End Cap	No	14		
64	DB-Entry	No	2		
01			-		
	Supply and install PVC/ Galvanised conduit complete with all accessories including couplings, bending and fixings as specified				
65	25mm - PVC cast in concrete, built in partition, brickwork or ceiling void	m	500		
66	25mm - Galvanised surface mounted or in ceiling void	m	100		
67	60mm round, 25mm deep for 25mm PVC conduit mounted flush in wall or fixed to surface	No	8		
	Carried to Collection			R	
	General Purpose Outlets and Lighting				



Bill No. 2 General Purpose Outlets and Lighting COLLECTION	Page No	Amount
COLLECTION	Page No	Amount
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otal Brought Forward from Page No.	Page No	Amount
otal Brought Forward from Page No.		
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	SECTION SUMMARY - Section 4 - Electrical Work				
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1	Low Voltage Reticulation	106			
2	General Purpose Outlets and Lighting	114			
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ltem No		Quantity	Rate	Amount
NO	SECTION 5 - MECHANICAL WORK			
	BILL NO 1			
	MECHANICAL WORK (Provisional)			
	GROUND & FIRST FLOOR : KITCHEN EXTRACT AIR & MAKE-UP FRESH AIR SUPPLY SYSTEMS			
	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of mechanical ventilation ductwork, piping and wiring, up to and including roof height. All ducts and 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.			
	KITCHEN EXTRACTION CANOPY			
	Supply and install, Canopies & Axial Fan, uninsulated round and rectangular sheet metal ductwork including transformation pieces, bends, tees, spigots, etc, installed on roof, manufactured in accordance with SANS 1238:2005 and SANS 10173:2003, as amended, including all necessary supports, fixing, brackets, flexible connections, etc.			
1	C-1:& C-2:(6200L x 1600W X 600(H))@ 4960L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements No	2		
	Carried to Collection		R	
	Air Conditioning			



2	C-3:(2800L x 1300W X 600(H))@ 1274L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements	No	1		
3	C-4:(2900L x 1200W X 600(H))@ 1740L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements	No	1		
4	C-5:(2650L x 1200W X 600(H))@ 740L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements	No	1		
5	C-1:& C-2:(2500L x 1200W X 600(H))@ 1500L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements	No	2		
6	C-3:& C-4:(5500L x 1200W X 600(H))@ 3300L/s, Supply and install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as per SANS requirements	No	2		
	Carried to Collection			R	
	Air Conditioning				



7	C-5:(2650L x 1200W X 600(H))@ 795L/s, Supply and					
	install a wall mounted Grade 304 stainless steel push-pull type kitchen extraction canopy complete with electrical connections, light fittings, flashing, removable filters and drip tray, electrical wiring and connections, on/off switch and other auxiliaries as					
	per SANS requirements	No	1			
8	Supply and install, EAF - MB: 01 - 13,73m3/s @ 320Pa; Extract Air- Axia fan c/w with duct transformation fittings ,sound attenuator, air filters, burglar bars, external louvre and accessories	No	1			
9	Supply and install, EAF: 01 & 02- 4800I/s @ 350Pa; Extract Air- Axia fan c/w with duct transformation fittings ,sound attenuator, air filters, burglar bars, external louvre and accessories	No	2			
10	Supply and install, OAF 01 - 1200I/s @ 250Pa; Extract Air- Axia fan c/w with duct transformation fittings ,sound attenuator, air filters, burglar bars, external louvre and accessories	No	1			
11	Supply and install, OAF- MB 01 - 10.98m3/s @ 320Pa; Extract Air- Axia fan c/w with duct transformation fittings ,sound attenuator, air filters, burglar bars, external louvre and accessories	No	1			
	DUCTING & FITTINGS					
12	348 x 300 Duct	m	6			
13	350 x 300 Duct	m	10			
14	450 x 500 Duct	m	8			
15	500 x 600 Duct	m	6			
16	600 x 400 Duct	m	30			
17	1200 x 550 Duct	m	12			
18	1200 x 1200 Duct	m	12			
	Carried to Collection			R		
	Air Conditioning					
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19	1500 x 1100 Duct	No	12		
20	1500 X 1100 TO 1200 X 1200 Duct Reducer Piece	No	2		
21	1200 X 1200 TO 500 x 650 Duct Reducer Piece	No	2		
22	900mm Diameter x 1500 X 1100 Duct Transformation Piece	No	2		
23	350 X 300 Elbow Band Piece	No	2		
24	600 X 400 Elbow Band Piece	No	2		
25	400 X 500 Elbow Band Piece	No	6		
26	600 X 400 45deg. Band Piece	No	4		
27	600 X 400 Shoe Take Off Piece	No	2		
28	450 X 500 Shoe Take Off Piece	No	2		
29	350 X 300 Shoe Take Off Piece	No	2		
30	500 x 600 Duct Stop End	No	2		
31	Hangers and consumables			SUM	
	KITCHEN MAKE-UP FRESH AIR SUPPLY				
	Supply and install, Axial Fan, uninsulated round and rectangular sheet metal ductwork including transformation pieces, bends, tees, spigots, etc, installed on roof, manufactured in accordance with SANS 1238:2005 and SANS 10173:2003, as amended, including all necessary supports, fixing, brackets, flexible connections, etc.				
32	OAF : 01 - 10,98m3/s Fresh air supply Axial fan c/w with, transformation pieces sound attenuator, air filters, burglar bars, external louvre and accessories	No	2		
	<b>Carried to Collection</b> Air Conditioning			R	



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	DUCTING & FITTINGS		
33	1000 x 1300 Duct	m	20
34	1000 x 800 Duct	m	12
35	900 x 600 Duct	m	10
36	700 x 800 Duct	m	16
37	1200 x 300 Duct	No	6
38	400 x 500 Duct	No	2
39	200mm Diameter duct	No	12
40	300mm Diameter take off	m	32
41	300mm Diameter flexible duct	m	24
42	1200 x 600 Supply Air Grille	No	18
43	1700 x 2900 Weather Louvre Complete with filters for 10,98m3/s	No	2
44	150mm Diameter take off	No	2
45	600 x 500 Take Off	No	2
46	450 x 500 Take Off	No	2
47	1000 x 800 Take Off	No	2
48	200mm Diameter duct elbow bend	No	2
49	600 x 600 Supply Air Grille	No	4
50	400 x 500 Duct Elbow Bend	No	2
51	900 x 600 Duct Elbow Bend	No	2
52	1000 x 1300 Duct Elbow Bend	No	4
	<b>Carried to Collection</b> Air Conditioning		



53	1000 x 1300 Duct Elbow Bend	No	4		
54	1700 x 2900 To 1000 x 1300 Duct Transformation Piece	No	2		
55	1000 x 1300 To 700 x 1800 Duct Transformation Piece	No	2		
56	1000 x 800 To 900 x 600 Duct Transformation Piece	No	2		
57	700 x 800 to 200mm Diameter duct transformation piece	No	2		
58	1700 x 2900 Weather Louvre Complete with filters for 10,98m3/s	No	2		
	Carried to Collection			R	
	Air Conditioning				



Section No. 6		
Bill No. 1		
Air Conditioning		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	116	
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	120	
	121	
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Air Conditioning		



ltem No			Quantity	Rate	Amount
	SECTION 5 - MECHANICAL WORK				
	BILL NO 2				
	FIRE PROTECTION INSTALLATION (Provisional)				
	<u>These bills of quantities form part of and must be</u> <u>read in conjunction with the Technical</u> <u>Specifications and Drawings, which contain the full</u> <u>descriptions of the work to be done and material</u> <u>and equipment to be used. Unless otherwise</u> <u>described in these bills of quantities, reference</u> <u>should be made to the Technical Specifications for</u> <u>the full meaning of descriptions of work to be done</u> <u>and materials and equipment to be used in this</u> <u>service. All materials, equipment, fixings, brackets,</u> <u>etc, are to be supplied by the Contractor unless</u> <u>otherwise stated.</u>				
	FIRE AND DIRECTIONAL SIGNAGE Photo luminescent fire and directional signage in multiples of 190 x 190mm as SANS 1186 - 1&5 photo luminescent, installed in accordance with SANS 10400 and framed with standard aluminium moulding and mounted with concealed screws to brickwork or concrete.				
1	Directional signage type E3.	No	4		
2	Fire signage type F13.	No	14		
3	Fire signage type F35.	No	8		
4	FIRE EXTINGUISHERS 4,5kg Dry Chemical Powder (DCP) type fire extinguisher with bracket fixed to and including single cabinet mounted on the brick wall.	No	14		
5	Kitchen Fire Blanket Supply 1,8m x 1,8m fire Blanket	No	8		
	<b>Carried Forward to Summary of Section No. 2</b> Fire Protection			R	



ltem No			Quantity	Rate	Amount
	SECTION 5 - MECHANICAL WORK				
	BILL NO 3				
	<u>SMOKE DETECTION SYSTEM - GROUND FLOOR</u> (Provisional)				
	All rates supplied in these bills of quantities will be deemed to include scaffolding to any height and fixing of the smoke detection system, and wiring, up to and including roof height. All installations 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.				
	SMOKE DETECTION INSTALLATION				
1	Smoke Detection Control Panel Supply & install a 2-loop analogue Addressable Smoke Detection Control Panel, including all related accessories. The panel shall be similar or equal to the Ziton ZP3 2 Loop Panel.	No	2		
2	Optical Smoke Detectors	No	19		
3	Optical Heat Detectors	No	13		
4	Ceiling Void Detectors	No	19		
5	Detector labels	No	94		
6	Network communication card to mimic panel	No	2		
7	Sounders/Beacons	No	16		
8	Break Glass Units For Addressable Manual Call Point	No	8		
	<b>Carried to Collection</b> Smoke Detection Installation			R	



	Note: Conduits and connections to be done by electrical installer			
9	Base sounder/strobes	No	16	
10	Fire Resistant Cables, PH30 In Accordance with SANS 10139	m	300	
11	Galvanised Conduit - 25mm with steel saddles	m	300	
12	I/O units for shut down of mechanical installations Fresh air fan shut down points	No	10	
	Carried to Collecti	on		R
	Smoke Detection Installation			



Section No. 6		
Bill No. 3		
Smoke Detection Installation		
COLLECTION		
Total Brought Forward from Page No.	Page           No           124           125	Amount
<b>Carried Forward to Summary of Section No. 2</b> Smoke Detection Installation		R



ltem No		Quantity	Rate	Amount	
	SECTION 5 - MECHANICAL WORK				
	<u>BILL NO 4</u>				
	<b>REFRIGERATION INSTALLATION (Provisional)</b>				
	COLD & FREEZER ROOMS				
	For layouts and details of cold and freezer rooms refer to Refrigeration Layouts as per Mechanical drawings 33547.01-732-01, 33547.01-732-03, and <u>Architectural Drawings WCS015-500, 501, 507, 510</u> and 516.				
	All refrigeration equipment is to be complete with compressors, condensers, PW/LO switches, oil separators, accumulators, pixel electric controllers and all necessary accessories. Al refrigerant piping are to be soft drawn copper pipes and shall be insulated with Arma-Flex. Condensers are to be installed on a purpose made bracket manufactured from galvanised steel.				
	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of refrigeration panels, ductwork and pipework. All ducts and 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.				
	Carried to Collection Refrigeration		R		_



			,		
	Cold Rooms constructed of 70mm thick				
	polyurethane clad with 0.6mm White Chromadek				
	fluted and insulated panels both sides, to sides and				
	ceilings, including all corners, angles, intersections				
	etc, complete with all condensing units and				
	refrigeration equipment, condensate piping,				
	connection to electrical installation etc, executed				
	<u>complete</u>				
_					
1	Cold room 3 approximately 1780 x 2005 x 2400mm				
	high as per Drawing 33547.01-732.03, wCS015-510		1		
	and Specification 33547.01 Section C.	No	I		
0					
2	Cold room 1 approximately 2100 x 2005 x 2400 mm				
	high as per Drawing 33547.01-732.03, WCS015-510	No	1		
	and Specification 33547.01 Section C.	INO	I		
3	Cold room 2 approximately 2230 x 2005 x 2400mm				
3	high as per Drawing 33547.01-732.03, WCS015-510				
	and Specification 33547.01 Section C.	No	1		
	and specification 33347.01 Section C.		I I		
4	Cold room 2 (Beverage Cold Room) approximately				
	4530 x 1800 x 2400mm high as per Drawing				
	33547.01-732.01, WCS015-507 and Specification				
	33547.01 Section C.	No	1		
5	Cold room 1 approximately 4330 x 5540 x 2400 mm				
	high as per Drawing 33547.01-732.01, WCS015-501				
	and Specification 33547.01 Section C.	No	1		
	Freezer Rooms constructed of 100mm thick				
	polyurethane clad with 0.6mm White Chromadek				
	fluted and insulated panels both sides, to sides and				
	ceilings, including all corners, angles, intersections				
	etc, complete with all condensing units and				
	refrigeration equipment, condensate piping,				
	connection to electrical installation etc, executed				
	<u>complete</u>				
6	Freezer room 2 approximate size 2100 x 1800 x				
0	2400mm high as per drawing 33547.01-732.01,				
	WC015-516 and Specification 33547.01	No	1		
	Carried to Collection			R	
	Refrigeration				<del></del>
		I	I	II	I



7	Freezer room 1 approximate size 1800 x 3100 x 2400mm high as per drawing 33547.01-732.03 and Specification 33547.01	No	1		
8	Freezer room 2 approximate size 1800 x 3100 x 2400mm high as per drawing 33547.01-732.03 and Specification 33547.01	No	1		
9	Freezer room 3 approximate size 2450 x 2800 x 2400mm high as per drawing 33547.01-732.03, WCS015-510 and Specification 33547.01	No	1		
10	Freezer room 1 approximate size 4250 x 3300 with extension approximately 1190 x 1540 x 2400mm high as per drawing 33547.01-732.01, WC015-500 and Specification 33547.01	No	1		
	Carried to Collection			R	
	Refrigeration				



Section No. 6		
Bill No. 4		
Refrigeration		
COLLECTION		
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1	Air Conditioning	122		
2	Fire Protection	123		
3	Smoke Detection Installation	126		
4	Refrigeration	130		
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2	Section 1: Preliminaries	35		
3	Section 2: Builder's Work	98		
4	Section 3: Provisional Sums	102		
5	Section 4 - Electrical Work	115		
6	Section 5 : Mechanical Work	131		
	Sub-total		R	
	Allow Fifteen per cent (15%) of the above sub-total for Value Added Tax		R	
	TOTAL CARRIED FORWARD TO FORM OF TENDER			
	(EXCLUDING VAT)		R	