

Bills of Quantities- Builders Work

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

Item No		Quantity	Rate	Amount
	<u>SECTION 2 - BUILDER'S WORK</u>			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill</p> <p>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</p>			
	<u>TEMPORARY BARRIERS, SCREENS, ETC.</u>			
	<u>Temporary barriers, screens, etc., including removal</u>			
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.	m	8	
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Demolish steel stairs</u>			
2	Stairs and landings size 3000 x 2100mm wide including making good edges, etc complete	No	1	
	<u>Breaking down and removing brickwork etc.</u>			
3	One brick walls	m ²	95	
	Carried to Collection			
	Alterations		R	

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	<u>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)</u>				
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		
10	Louvre panel 1146 x 1331mm	No	1		
11	Glazed timber window 1300 x 2607mm high	No	2		
12	Glazed timber window 1700 x 2595mm including louvre panel, complete	No	1		
	<u>Carefully take off, up or out sundry joinery work, fittings, etc. and hand over to employer</u>				
13	Timber coffee station cupboard, 2000 x 500 x 850mm high, including disconnecting waste pipe	No	2		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc. and making good for paint finish (paint elsewhere measured)</u>				
14	Acoustic tile suspended ceilings, including suspension grid, hangers, cornices, etc.	m ²	500		
	Carried to Collection				
Alterations				R	

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15	Stripping out cold/freezer room average size 6m ² x 2.4m high and hand over to the Client	No	6		
16	Stripping out refrigeration average size 9m ² x 2.4m high and hand over to the Client	No	4		
17	Stripping out spiral staircase size 1800mm diameter x 3150mm high and hand over to the Client	No	1		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.</u>				
18	Internal plaster from walls and columns	m ²	40		
	<u>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.</u>				
19	Tiles to floors	m ²	496		
20	Tiles to walls	m ²	923		
	<u>Taking out and removing dumb waiter (1 flight) and make good lift shaft to receive new dumb waiter (new dumb waiter elsewhere measured)</u>				
21	Dumb waiter	No	1		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.</u>				
22	50mm Screeds to falls and cross falls from cold rooms, including waterproofing	m ²	85		
	<u>Taking out and removing ironmongery</u>				
23	Mortice lock from timber door	No	12		
24	Chromium plated door handle	No	4		
Carried to Collection				R	
Alterations					

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<u>OPENINGS THROUGH EXISTING WALLS ETC.</u>			
<u>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).</u>			
33	Opening for door 1500 x 2100mm high through 230mm brick wall	No	1
<u>BUILDING UP OPENINGS</u>			
<u>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).</u>			
34	Opening 0.90 x 2.10m high overall in one brick wall	No	1
<u>MAKING GOOD OF FINISHES, ETC.</u>			
<u>Making good brickwork</u>			
35	Faces of walls where 230mm brick cross walls were removed	m	13
<u>Making good plastering</u>			
36	Plastering to faces of walls and/or columns where 230mm brick cross walls were removed	m	13
<u>Making good screeds</u>			
37	25mm Thick on floors where one brick walls are removed	m	19
Carried to Collection			
Alterations			
			R

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Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 2 - BUILDER'S WORK</u></p> <p><u>BILL No. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill</p> <p>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</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Trade names</u></p> <p>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</p> <p>Proof as to the suitability of the alternate product/s offered shall rest with the tenderer</p>				
	<p><u>CONCRETE SUNDRIES</u></p> <p><u>PVC sleeves</u></p>				
1	50mm Diameter sleeves through not exceeding 300mm concrete wall	No	2		
	<p style="text-align: right;">Carried to Collection</p> <p>Concrete, Formwork & Reinforcement</p>			R	

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

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<u>Building in of conduits</u> 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> 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>SUPERSTRUCTURE</u> <u>Brickwork of NFP burnt clay bricks (14-20 MPa nominal compressive strength) in Class II mortar</u>					
1	Half brick walls	m ²	20		
2	One brick walls	m ²	107		
<u>Brickwork reinforcement</u>					
3	75mm Wide reinforcement built in horizontally	m	57		
4	150mm Wide reinforcement built in horizontally	m	314		
<u>Prestressed concrete lintels</u>					
5	110 x 70mm Lintels in lengths not exceeding 3m	m	3		
6	150 x 70mm Lintels in lengths not exceeding 3m	m	3		
<p style="text-align: right;">Carried to Collection</p> Masonry				R	

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	<p><u>SECTION 2 - BUILDER'S WORK</u></p> <p><u>BILL No. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill</p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>Trade names</u></p> <p>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</p> <p>Proof as to the suitability of the alternate product/s offered shall rest with the tenderer</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Waterproofing</p>			R	

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<p><u>Trade names</u></p> <p>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</p> <p>Proof as to the suitability of the alternate product/s offered shall rest with the tenderer</p> <p><u>DOORS, ETC.</u></p> <p><u>Doors as per the door schedule referred to, in the Architect's drawings no. WC015 - 700 issued with the bills of quantities</u></p> <p><u>Solid core flush panel doors with concealed hardwood edges all round, with 3,2mm timber veneer (wood type) covering to both sides</u></p>			
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	1
<p><u>FITTINGS</u></p> <p><u>General</u></p> <p>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</p>			
<p style="text-align: right;">Carried to Collection</p>			
<p>Carpentry and Joinery</p>			
<p style="text-align: right;">R</p>			

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 2 - BUILDER'S WORK</u>				
	<u>BILL No. 6</u>				
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<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				
	<u>Proprietary suspended ceilings</u>				
	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)				
	Carried to Collection				
	Ceilings, Partitions and Access Flooring			R	

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Bulkheads

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.

Trade names

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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

R

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<u>SUSPENDED CEILINGS</u>					
<u>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</u>					
1	Horizontal ceilings suspended not exceeding 1000mm below concrete soffits	m ²	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		
<u>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</u>					
4	Vertical bulkheads	m ²	7		
Carried to Collection					
Ceilings, Partitions and Access Flooring					

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<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					
<u>HINGES, BOLTS, ETC.</u>					
1	150mm Stainless steel flush bolt	No	1		
2	300mm Stainless steel flush bolt	No	1		
<u>LOCKS</u>					
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		
<u>PUSH AND KICKING PLATES</u>					
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					
Ironmongery				R	

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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		
	<u>DOOR CLOSERS</u>				
10	Overhead door closer non-hold open multi-strength	No	3		
	<u>SUNDRIES</u>				
11	Stainless steel door stop	No	6		
	<u>BATHROOM FITTINGS</u>				
	<u>Approved</u>				
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 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		
	<u>Approved</u>				
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				

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

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<u>ALUMINIUM SHOWER SCREENS AND DOORS</u>				
<u>Approved framed shower doors and screens with swing doors, cleats, stops, etc. and toughened frosted safety glass, fixed to tiled walls</u>				
6	Corner unit 900 x 1200 x 1800mm high	No	2	
<u>ALUMINIUM WINDOWS, DOORS, ETC.</u>				
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				
<u>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</u>				
<u>Approved top-hung casement aluminium windows (Colour : White) with 6.38mm clear laminated safety glass, plugged to brickwork or concrete</u>				
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				
Metalwork				R

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	<u>SECTION 2 - BUILDER'S WORK</u>				
	<u>BILL No. 9</u>				
	<u>PLASTERING</u>				
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
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	<u>TRADE NAMES</u>				
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	Proof as to the suitability of the alternate product/s offered shall rest with the tenderer				
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
1	25mm Thick on floors and landings	m ²	707		
	<u>Screeds wood floated on concrete</u>				
2	Average 60mm thick on floors to falls and currents	m ²	85		
	Carried to Collection				
	Plastering			R	

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	<u>SECTION 2 - BUILDER'S WORK</u>				
	<u>BILL No. 11</u>				
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>uPVC pipes and fittings</u>				
	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				
	<u>Stainless steel basins, sinks, wash troughs, urinals, etc</u>				
	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)				
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	Plumbing and Drainage				

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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

R

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"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

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Chasing

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

General

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

R

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CAPE TOWN : PARLIAMENTARY PRECINCT
UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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
<u>FLOOR DRAINS & WASTE TRAPS</u>			
19	Supply and Install Herbish HB200H or equal and approved floor drain	No	8
20	Supply and Install Herbish HB200V Floor Drain	No	6
<u>WATER SUPPLIES</u>			
Note : The rates for taps, valves, fittings, etc., are to include for all connections to the piping, including any necessary adapters, special jointing, etc.			
<u>Class II Copper Pipes with Brass Compression fittings</u>			
21	15mm Pipe in chase	m	10
<u>Extra over Class II copper pipes for Conex Compression fittings</u>			
22	15mm Fittings	No	10

Carried to Collection

Plumbing and Drainage

R

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2 - BUILDER'S WORK</u></p> <p><u>BILL No. 12</u></p> <p><u>KITCHEN EQUIPMENT</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades (2008) before pricing this bill</p> <p>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</p> <p><u>Trade names</u></p> <p>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</p> <p>Proof as to the suitability of the alternate product/s offered shall rest with the tenderer</p>			
	<p><u>General</u></p> <p>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</p>			
	<p style="text-align: right;">Carried to Collection</p>			
	Kitchen Equipment		R	

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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		
<u>Breakfast Area</u>					
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		
<u>90 PLEIN STREET</u>					
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		
				R	
Carried to Collection					
Kitchen Equipment					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 2 - BUILDER'S WORK</u>				
	<u>BILL No. 14</u>				
	<u>PAINTWORK</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				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<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				
	<u>Paint specifications</u>				
	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				
	Carried to Collection				
	Paintwork			R	

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Bill No	<u>SECTION SUMMARY - Section 2: Builder's Work</u>	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

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Item No		Quantity	Rate	Amount
	<u>SECTION 3 - PROVISIONAL SUMS</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	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.			
	<u>SELECTED SUB-CONTRACT AMOUNTS</u>			
	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	Item		
3	Attendance on above item	Item		
	<u>Asbestos Removal</u>			
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		
	Carried to Collection		R	
	Provisional Sums			

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

<u>Joinery Fittings and Steel Shelving</u>			
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	100 000.00
8	Profit on above item	Item	
9	Attendance on above item	Item	
<u>Signage</u>			
10	Allow the amount of R 50 000(Fifty Thousand Rands) for Signage Installation	Sum	50 000.00
11	Profit on above item	Item	
12	Attendance on above item	Item	
<u>Builders work in connection with services</u>			
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	50 000.00
14	Profit on above item	Item	
15	Attendance on above item	Item	
<u>Lift Installation</u>			
16	Allow the Amount of R 200 000.00 (Two Hundred Thousand Rand) for Dumb Waiter Installation	Sum	200 000.00
17	Profit on above item	Item	
18	Attendance on above item	Item	
Carried to Collection			
Provisional Sums			
		R	

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Quantity	Rate	Amount
	<u>SECTION 4 - ELECTRICAL WORK</u>			
	<u>BILL NO. 1</u>			
	<u>LOW VOLTAGE RETICULATION (Provisional)</u>			
	<u>DISTRIBUTION</u>			
	<u>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</u>			
1	Distribution board SB-K (See Drawing No. 33547.00/312-03 REV T0)	No 1		
2	Distribution board SB-K2 (See Drawing No. 33547.00/312-03 REV T0)	No 1		
3	Distribution board SB-K1 (See Drawing No. 33547.00/312-02 REV T0)	No 1		
4	Distribution board MDB (See Drawing No. 33547.00/312-02 REV T0)	No 1		
	<u>CABLES AND TERMINATIONS</u>			
	<u>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</u>			
	<u>From Utility to SDB-K</u>			
5	2x185mm ² 4 core cable	m 150		
6	150mm ² ICEW	m 150		
	Carried to Collection		R	
	Low Voltage Reticulation			

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CAPE TOWN : PARLIAMENTARY PRECINCT
UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

7	2x185mm ² 4 core cable terminations	No	4		
8	150mm ² ICEW terminations	No	4		
<u>From Utility to MBD-K</u>					
9	70mm ² 4 core cable	m	50		
10	50mm ² ICEW	m	50		
11	70mm ² 4 core cable terminations	No	2		
12	50mm ² ICEW terminations	No	2		
<u>From Utility to SBD-K1</u>					
13	150mm ² 4 core cable	m	100		
14	120mm ² ICEW	m	100		
15	150mm ² 4 core cable terminations	No	2		
16	120mm ² ICEW terminations	No	2		
<u>From SBD-K1 to SBD-K2</u>					
17	35mm ² 4 core cable	m	30		
18	25mm ² ICEW	m	30		
19	35mm ² 4 core cable terminations	No	2		
20	25mm ² ICEW terminations	No	2		
Carried to Collection					
Low Voltage Reticulation				R	

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CAPE TOWN : PARLIAMENTARY PRECINCT
UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

TRUNKING

Supply and install cable ladder complete with all accessories and steel covers

21	300mm Cable Ladder	No	280
22	300mm Horizontal/vertical elbow	No	2
23	300 x 300mm Tee	No	1

Carried to Collection

Low Voltage Reticulation

R

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CAPE TOWN : PARLIAMENTARY PRECINCT
UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Quantity	Rate	Amount
	<u>SECTION 4 - ELECTRICAL WORK</u>			
	<u>BILL NO. 2</u>			
	<u>GENERAL PURPOSE OUTLETS AND LIGHTING</u>			
	<u>(Provisional)</u>			
	<u>CONDUIT</u>			
	<u>Supply and install PVC conduit complete with all accessories including couplings, bending and fixings as specified</u>			
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	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
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			
	General Purpose Outlets and Lighting			
			R	

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

<u>WIRING AND CONDUCTORS</u>					
<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking</u>					
8	2.5mm ² Insulated Wire	m	2 440		
9	4mm ² Insulated Wire	m	1 400		
10	1.5mm ² B.C.E.W.	m	740		
11	2.5mm ² B.C.E.W.	m	1 500		
12	2.5mm ² Insulated earth wire	m	80		
<u>CABLES AND TERMINATIONS</u>					
<u>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</u>					
<u>From SBD-K to 3PH Isolator</u>					
13	16mm ² 4 core cable	No	320		
14	10mm ² ICEW	No	320		
15	16mm ² 4 core cable terminations	No	24		
16	10mm ² ICEW terminations	No	24		
<u>From SBD-K to 3PH Isolator</u>					
17	10mm ² 4 core cable	m	460		
18	6mm ² ICEW	m	460		
19	10mm ² 4 core cable terminations	No	40		
20	6mm ² ICEW terminations	No	40		
Carried to Collection				R	
General Purpose Outlets and Lighting					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

<u>LUMINARIES</u>			
<u>Supply, Install and connect luminaries mounted as specified, complete with lamps, control gear and all accessories</u>			
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			
General Purpose Outlets and Lighting			
R			

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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)	No			RATE ONLY
<u>SWITCHED AND UNSWITCHED SOCKET OUTLETS</u>					
<u>Supply, install and connect socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories</u>					
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		
<u>ISOLATORS</u>					
<u>Supply and install Isolators mounted flush or surface on wall complete with cover plate, steel conduit box and all accessories.(Cabtree or equal approved)</u>					
47	Three phase isolator surface mounted against soffit or wall	No	2		
Carried to Collection					R
General Purpose Outlets and Lighting					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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		
<u>TRUNKING</u>					
<u>Supply and install wiring trunking complete with all accessories and steel covers</u>					
53	P9000 Trunking	m	410		
54	P8000 Trunking	m	240		
<u>Extra on P9000 trunking for</u>					
55	Horizontal/Vertical Elbow	No	14		
56	Tee	No	14		
57	4 Way	No	18		
58	End Cap	No	28		
59	DB-Entry	No	4		
<u>Extra on P8000 trunking for</u>					
60	Horizontal/Vertical Elbow	No	9		
61	Tee	No	6		
62	4 Way	No	13		
Carried to Collection				R	
General Purpose Outlets and Lighting					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Bill No	<u>SECTION SUMMARY - Section 4 - Electrical Work</u>	Page No	Amount
1	Low Voltage Reticulation	106	
2	General Purpose Outlets and Lighting	114	
CARRIED TO FINAL TENDER SUMMARY			R

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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 - 13,73m ³ /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- 4800l/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 - 1200l/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 - 10.98m ³ /s @ 320Pa; Extract Air- Axia fan c/w with duct transformation fittings ,sound attenuator, air filters, burglar bars, external louvre and accessories	No	1	
<u>DUCTING & FITTINGS</u>				
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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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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	
<u>KITCHEN MAKE-UP FRESH AIR SUPPLY</u>					
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 - 10,98m ³ /s Fresh air supply Axial fan c/w with, transformation pieces sound attenuator, air filters, burglar bars, external louvre and accessories	No	2		
Carried to Collection				R	
Air Conditioning					

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

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 10,98m ³ /s	No	2

Air Conditioning

Carried to Collection

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CAPE TOWN : PARLIAMENTARY PRECINCT
UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Quantity	Rate	Amount
	<u>SECTION 5 - MECHANICAL WORK</u>			
	<u>BILL NO 2</u>			
	<u>FIRE PROTECTION INSTALLATION (Provisional)</u>			
	<u>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</u>			
	<u>FIRE AND DIRECTIONAL SIGNAGE</u>			
	<u>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.</u>			
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	
	Carried Forward to Summary of Section No. 2		R	
	Fire Protection			

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UPGRADING AND CONFIGURATION OF VARIOUS KITCHENS

Item No		Quantity	Rate	Amount
	<u>SECTION 5 - MECHANICAL WORK</u>			
	<u>BILL NO 3</u>			
	<u>SMOKE DETECTION SYSTEM - GROUND FLOOR</u> <u>(Provisional)</u>			
	<u>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.</u>			
	<u>SMOKE DETECTION INSTALLATION</u>			
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 Zitron 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	
	Carried to Collection			R
	Smoke Detection Installation			

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Item No		Quantity	Rate	Amount
	<u>SECTION 5 - MECHANICAL WORK</u>			
	<u>BILL NO 4</u>			
	<u>REFRIGERATION INSTALLATION (Provisional)</u>			
	<u>COLD & FREEZER ROOMS</u>			
	<p><u>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 Architectural Drawings WCS015-500, 501, 507, 510 and 516.</u></p> <p><u>All refrigeration equipment is to be complete with compressors, condensers, PW/LO switches, oil separators, accumulators, pixel electric controllers and all necessary accessories. All 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.</u></p> <p><u>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.</u></p>			
	Carried to Collection		R	
	Refrigeration			

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	<u>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 complete</u>				
1	Cold room 3 approximately 1780 x 2005 x 2400mm high as per Drawing 33547.01-732.03, WCS015-510 and Specification 33547.01 Section C.	No	1		
2	Cold room 1 approximately 2100 x 2005 x 2400 mm high as per Drawing 33547.01-732.03, WCS015-510 and Specification 33547.01 Section C.	No	1		
3	Cold room 2 approximately 2230 x 2005 x 2400mm high as per Drawing 33547.01-732.03, WCS015-510 and Specification 33547.01 Section C.	No	1		
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		
	<u>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 complete</u>				
6	Freezer room 2 approximate size 2100 x 1800 x 2400mm high as per drawing 33547.01-732.01, WC015-516 and Specification 33547.01	No	1		
Carried to Collection					R
Refrigeration					

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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
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