

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2A</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Demolitions and Works on Site</u></p> <p>All demolitions and works on site must be carried out carefully and in the safest possible manner and the Contractor is to make a thorough examination and take all necessary precautions before proceeding with the work. The utmost care is to be observed to avoid any structural or other damage in the remaining portions of the existing building</p> <p>Special care is to be exercised not to interfere with any electrical installation, and notice is to be given to the Representative/Agent when any disconnections, removal of wires, etc. necessary and the Contractor is to afford every facility to the workmen carrying out his work</p> <p>The Contractor shall not remove or interfere with any furniture, fittings or similar articles unless specially mentioned in the following items and shall give adequate notice to the Representative/Agent of the removal of any articles from parts of the building are to be altered becomes necessary so that the Employer may have same removed before the Contractor commences work in such parts</p> <p>The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his expense any damage that may occur</p> <p><u>Old materials to become property of the contractor</u></p> <p>Old materials from alterations except where described to be re-used or handed over, become the property of the contractor</p>			
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Old materials to be carted away

Old materials from alterations except where described as re-used or handed over, as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.

Old materials to be re-used

None of the old materials are to be used for new work except where specifically described as being set aside for re-use.

Handing over of materials

Where certain materials or articles from demolitions or alterations are described as to be handed over by the contractor to the Department's Representative or Representative/Agent such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.

General

The contractor shall carry out the whole works with as little mess and noise as possible and with a minimum of disturbance to the occupants of the building. The contractor shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Project Manager

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

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Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)

REMOVAL OF EXISTING WORK

Take down IBR roof sheeting and cart off site:

A Carefully remove and take off site damaged IBR roof sheets including all ancillary fixings

m² 464

Taking out and removing doors, windows, frames, etc. including thresholds, sills and all associated ironmongery from brickwork

B FLB timber double leaf swing door, overall size 1 610 x 2 032mm high .Refer to the architects drawing number 05-201-0 (Door type DA)

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ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	FLB timber single leaf swing door, overall size 900 x 2 032mm high Refer to the architects drawing number 05-201-0 (Door type DB)	No	1		
B	FLB timber single leaf swing door, overall size 900 x 2 520mm high including bottom hung opening fanlight, 457mm high, with 6.38mm Colourvue deep cool grey coloured laminated safety glass, size 900 x 457mm.Refer to the architects drawing number 02-221-0 (Door type DA)	No	2		
C	Semi-solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DD)	No	5		
D	Semi-solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DJ)	No	1		
E	Semi-solid timber flush double leaf swing door, overall size 813 x 2520mm high overall, including 488mm high fanlight, 6.38mm Colourvue deep cool grey coloured laminated safety glass, size 900 x 488 mm. Refer to the architects drawing number 02-221-0 (Door type DC)	No	1		
F	Semi-solid timber flush single leaf swing door, overall size 900 x 2 032mm high overall. Refer to the architects drawing number 02-221-0 (Door type DM01)	No	1		
G	Semi-solid timber flush single leaf swing door, overall size 900 x 2 032mm high overall. Refer to the architects drawing number 02-221-0 (Door type DM02)	No	1		
H	Semi-solid timber flush single leaf swing door, overall size 900 x 2 032mm high overall. Refer to the architects drawing number 02-221-0 (Door type DM03)	No	1		
J	Semi-solid timber flush single leaf swing door, overall size 900 x 2 032mm high overall. Refer to the architects drawing number 02-221-0 (Door type DM05)	No	1		
K	Aluminium double swing door with fixed fanlight and sidelights, overall size 8520 x 3625mm high, forming 90degree corner installation. Refer to the architects drawing number 01-521-0 (Door type DA)	No	1		
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A	Aluminium single leaf swing door with fixed fanlights overall size 3160 x 2600mm high. Refer to the architects drawing number 01-521-0 (Door type DQ)	No	3		
B	Aluminium window with overall size 1200 x 1440mm high. Refer to the architects drawing number 01-531-0 (Window type W3)	No	6		
C	Aluminium window with overall size 5 635 x 1 615mm high. Refer to the architects drawing number 02-221-0 (Window type W1)	No	1		
D	Aluminium window with overall size 600 x 1 020mm high. Refer to the architects drawing number 02-221-0 (Window type W2)	No	2		
E	Aluminium window with overall size 1 200 x 1 020mm high. Refer to the architects drawing number 02-221-0 (Window type W3)	No	1		
F	Aluminium window with overall size 600 x 900mm high. Refer to the architects drawing number 01-522-0 (Window type W7)	No	3		
G	Aluminium shopfront with overall size 4 660 x 3 840mm high. Refer to the architects drawing number 01-522-0 (Window type W2)	No	1		
H	Aluminium shopfront with overall size 3 160 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Window type DQ03)	No	1		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>				
J	Carefully remove existing waterproofing from concrete flat roof and prepare surfaces for new waterproofing	m ²	145		
K	Carefully remove existing waterproofing from bottom of planter boxes	m ²	5		
L	Carefully remove existing waterproofing from sides of planter boxes	m ²	22		
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<u>Take down and set aside for re-use, including re-fixing in similar position</u>					
A	Carefully take down aluminium gutters, set aside and later re-fix in same position. (Price to include re-fixing)	m	72		
B	Carefully take down aluminium downpipes, set aside and later re-fix in same position. (Price to include re-fixing)	m	8		
<u>Taking down and removing aluminium gutters, piping, etc including cutting off as necessary and make good remaining surfaces and finishes</u>					
C	Aluminium gutters fixed to fibre cement fascia	m	53		
<u>Taking down and removing ceilings, cornices, partitions, etc.</u>					
D	Acoustic tile suspended ceilings including suspension grid, hangers, etc. (Block A, ground floor, room 01). Refer to the Architects drawing 900(855)-HOUD08_01-252-0)	m ²	63		
E	Gypsum plasterboard ceilings, including cornices, timber bandering, etc. Refer to the Architects drawing 900(855)-HOUD08_01-252-0	m ²	42		
F	Fibre cement ceilings	m ²	125		
G	Fibre cement fascias 300mm wide	m	182		
<u>Taking up and removing vinyl floor coverings, carpeting, etc:</u>					
H	Epoxy sheet floor covering including preparing screed for new carpet, vinyl sheeting or tile etc. (new floor finish elsewhere)cs	m ²	103		
<u>Hacking up/off and removing ceramic/porcelain tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>					
J	Tiles from floors	m ²	320		
K	Tiles from walls	m ²	24		
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<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>			
A	Internal plaster from walls and columns	m ²	81
B	25mm concrete screed from floors	m ²	465
<u>Carefully remove external face brick skin by mechanically grinding and chipping with masonry chisels as necessary, including preparing surfaces to receive new face brickwork</u>			
C	Face brick in patches	m ²	113
<u>Taking out and removing sundry joinery work, joinery fittings, etc and making good damaged plasterwork and screed to floors</u>			
D	Remove existing rectangular floor cupboards with 32mm thick continuous Formica worktop complete, approximate overall size 4600 x 600 x 900mm high, including all ironmongery, doors, shelves and drawers, etc and replace with new joinery (new joinery elsewhere measured) to match existing (elsewhere measured) and make good to damaged plasterwork to walls and floors where necessary . Refer to the Architects drawing 900(855)-HOUD08_01-221-0		Item
<u>Carefully taking out stainless steel balustrade and hand rails, re-polish to brush finish and setting aside for reuse etc. and later taking from store and re-fixing in similar position</u>			
E	50mm Stainless steel handrail - horizontal	m	23
F	50mm Stainless steel handrail - raking	m	36
G	Extra over for corner intersection	No	8
H	Extra over for closed end	No	19
J	775mm High stainless steel balustrade including stainless steel handrail - horizontal	m	25
K	1 000mm High stainless steel balustrade including stainless steel handrail - Horizontal	m	2
L	1 000mm High stainless steel balustrade including stainless steel handrail - Raking	m	8
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ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	Extra over for corner intersection	No	3		
B	Extra over for closed end	No	14		
C	1 000mm High stainless steel balustrade including stainless steel handrail - Horizontal	m	4		
D	1 000mm High stainless steel balustrade including stainless steel handrail - Raking	m	41		
E	Extra over for corner intersection	No	7		
F	Extra over for closed end	No	21		
<u>Taking out and removing ironmongery to receive new elsewhere measured</u>					
G	Heavy duty adjustable roller catch CH forend and striker (code: 764001)	No	2		
H	2 X 13/TSC "Union" oval bathroom/wc cylinder.	No	1		
J	Mortice hook lock 35mm backset (code: QH35X85MM-SS)	No	1		
K	2915 Rebate set SC (code: 2915SC)	No	2		
L	Union satin chrome on brass rebate conversion set, complete (code: UK2979-13MMSC)	No	1		
M	Oval cylinder deadlock SS (code: L-2141-78SS)	No	4		
N	Oval cylinder lock SS (code: L-2241-78SS)	No	13		
P	Latch and deadbolt lock w/o cylinder 30mm (code: 4210305NM)	No	11		
Q	Latch and deadbolt lock w/o cylinder 30mm (code: 4211305NM)	No	4		
R	J-883T-SIL "Union" double panic bolt 900mm	No	2		
S	Euro-Profile cylinder deadlock SS (code: L-2115-78SS)	No	2		
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<u>Taking out and removing piping, sanitary fittings, etc. including disconnecting piping from fittings and making good floor and wall finishes elsewhere:</u>					
A	Vitreous china WC pan with cistern, including stop cocks, short lengths of piping, blanking off pipework, making good brickwork and plaster and paint wall finish, etc.	No	1		
<u>Taking out and removing broken or cracked glass, including cleaning out rebates and preparing for new (elsewhere measured)</u>					
B	Glass panes exceeding 0.5m ² and not exceeding 2m ² from steel windows	m ²	30		
<u>Taking out and removing stainless steel braai, including cleaning and preparing for new (elsewhere measured)</u>					
C	Jetmaster Model 1500 Super De Luxe black mild steel barbecue with double front doors, motor box, light fitting, fibre glass insulation, double switch, potjie hook, charcoal starter, charcoal dispenser, ash disposal pan and 1490 x 590mm stainless steel grill with flue gather connected to 2No. 1800mm long square 500 x 350mm mild steel flue lengths with galvanised rotating cowl	No	2		
<u>Taking out and removing stainless steel columns, including cleaning and preparing for new (elsewhere measured)</u>					
D	50 x 50 x 4mm columns	No	8		
<u>GENERAL CLEANING TO EXISTING SURFACES</u>					
<u>Cleaning of existing aluminium and PVC rainwater goods, etc including the removing of all debris from gutters and making sure that all downpipes are open and free flowing.</u>					
E	Clean existing aluminium gutters including sealing all joints and leave fully functional	m	54		
F	Clean existing aluminium downpipes including sealing all joints and leave fully functional	m	21		
G	Clean existing full bore outlets including sealing all joints and leave fully functional	No	7		
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A	<p><u>Thoroughly cleaning of existing floor finishes to remove all dirt, grease and all general contaminants, etc. left in a complete clean condition</u></p> <p>Clean existing screeded floors</p>	m ²	168	
	<p><u>Thoroughly cleaning of existing wall and floor tiles to remove all dirt, grease and all general contaminants, etc and left in a complete clean condition</u></p> <p>Floor tiles to be cleaned as follows:</p> <p>Sweep the tiled area with a microfibre mop – pay particular attention to the edges of the room where dirt is most likely to congregate.</p> <p>Apply a solution of cleaning fluid and hot water. Read the directions on the label and test any product in a small area first before using on the entire surface. Leave to stand for up to ten minutes, following the directions on the label.</p> <p>Scrub the area with a soft nylon brush.</p> <p>Wipe away the dirty cleaning residue with clean warm water.</p> <p>Though unglazed porcelain tiling is notoriously stain resistant, stains can and often do build up over time. To tackle tricky areas, repeat steps 2-4 as required.</p> <p>Existing tiles to be grouted and made good</p>			
B	<p>Clean existing porcelain floor tiles</p> <p><u>Remove loose and peeling paint back to firm edge scraping, sanding or other suitable means and feather edges, apply sodium hypochlorite solution to all areas containing algae, scrub with "Polycell Sugar Soap Liquid" or equal approved wall cleaning solution applied in strict accordance with the manufactures instructions, including water jetting existing concrete and plaster surfaces, repairing cracks with (<0.3mm) hairline in preparation for new finishes. Refer to Architects External Specification</u></p>	m ²	18	
C	<p>Clean existing plastered and painted masonry walls</p>	m ²	2,646	
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Carefully remove air conditioning mesh cage, sandblast to bare metal to remove all paint and rust. Cage to be galvanized and painted with one coat of "Galvogrip" or equal approved self-etching primer and two coats "Plascon" Velvagro or equal approved polyurethane satin gloss enamel paint. Including re-fixing in same position with snap off rawl bolts.

A	Air conditioning mesh cage size approximately 1 000 x 1 000 x 500mm deep overall	No	1
B	Air conditioning mesh cage size approximately 1 500 x 1 500 x 800mm deep overall	No	1

MAKING GOOD OF FINISHES, ETC.

Making good acoustic tile suspended ceilings

C	Ceilings in patches.Refer to the Architects drawing 900(855)-HOUD08_01-251-0	m ²	21
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Making good cement screeds

D	25mm Thick on floors in patches on treads and risers of staircases	m ²	102
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Making good concrete

E	Rub down / light abrasion and wash / clean off-shutter concrete and inspect. Apply a fairing compound Sika monotop 3020. The Sika monotop 3020 can also have some white cement added for a lighter shade of grey. The Sika monotop 3020 is a 1mm - 5mm in thickness skimming compound.	m ²	417
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F	Break out the defective concrete areas until sound concrete is reached. exposed concrete to be well saturated.Placement of the Sika Grout 212 to be done by means of a letter box shutter.All to be done strictly to manufacturer's specifications	m ²	21
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FBX face brickwork in class I cement mortar to match existing

G	Face brickwork to walls in patches where brickwork was previously carefully removed	m ²	113
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A	110mm Wide header course sills set sloping and slightly projecting, sill pointed on-top and face	m	8		
	<u>Making good to face brickwork</u>				
B	Existing mortar joints in face brickwork to be filled in and pointed and jointed	m ²	113		
	<u>SERVICING OF WINDOWS, DOORS, SANITARY FITTINGS, ETC.</u>				
	<u>Attend to, service and repair as necessary all sanitary fittings, taps including replacing any defective or missing parts.</u>				
C	Vaal Sanitary ware Cameo oval self-rimming ceramic fire clay under slung vanity basin colour White (Code: 702803), overall size 595 x 455mm with three tap holes including chain stay hole, fitted underneath opening in vanity top (elsewhere specified) including hanger brackets . Refer to SAN01S-0- Sanitary Schedule	No	6		
D	Vaal Sanitary ware Tuscany 560 vitreous china wall mounted basin colour White (Code: 7006), size 560 x 415mm with one tap hole including integrated overflow and chain stay hole bolted to wall with two 10mm bolts (elsewhere specified) and sealed with silicone sealant where basin meets wall.	No	2		
E	Franke Quinline Model QLX621-120 Grade 304 18/10 polished stainless steel double end bowl inset sink, overall size 1200 x 500mm with two 343 x 410 x 149mm deep bowls, fitted onto cupboard (elsewhere specified) including Spazi F/2 plumbing kit with 90mm waste fitting	No	1		
F	Franke Quinline Model QLX611 polished stainless steel single bowl inset sink , overall size 900 x 500mm, fitted onto cupboard (elsewhere specified) including Spazi F/2 plumbing kit (Code: 301251) with 90mm waste fitting (Code: 300651)	No	2		
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A	Vaal Sanitary ware Orchid vitreous china 90° wall hung open rim pan colour White 90° outlet open rim back inlet pan de: 8fixed on and including floor bracket and with Jazz Urea Seat Cover. Geberit 80mm Kombifix (UP172) concealed cistern for wall hung WC (article no. 110.772.00.1), front actuated with Delta 15 Stainless Steel Vandal Proof Plate including flush pipe and pan connector, water supply connection with angle stop valve, protection cover for service opening and protection cover for flush pipe, fixed with included fastening materials. To include 3/6 flushing system. All with Geberit conditional guarantee	No	8		
B	Vaal Sanitary ware Pearl Paraplegic vitreous china floor mounted paraplegic wash down suite colour White comprising semi close couple 90° outlet open rim wash down pan and matching 9 litre cistern, including lid, fitments and purpose-made chromium plated side flush lever. Supplied with purpose made urea seat and cover plate	No	1		
C	Vaal Sanitary ware 565 x 275 x 310mm Sweetpea white vitreous china wall mounted top inlet urinal including 38mm chromium plated domical grating and chromium plated top inlet spreader (code: 7054Z0), flush valve (by others - Recommended: Cobra FJ6000) and flush pipe (by others - Recommended: Cobra FJT5.5), fixed on and including two hanger brackets	No	4		
D	Cobra Watertech 15mm chrome plated Power shower head with classic spray and self-cleaning spray nozzle, designed to deliver a maximum flow of 10L/min and a minimum flow of 50KPa, chrome plated	No	6		
E	Cobra Watertech "Gala" 15mm chrome plated single lever basin mixer with classic handle	No	6		
F	Wall spout - 'Damara' Spout - Chrome - Wall Spout	No	4		
G	15mm KM2.301 CP Undertile metering stoptap	No	4		
H	Cobra Watertech 20mm standard brass hose bib tap (code: 108LK-20) with lock shield, loose key, wing nut and lining, manufactured in accordance with SANS 226:2009 Type 1 (BS 1010)	No	3		
J	ISCA Garda chrome plated single hole sink mixer (code: 9104/1/CH), manufactured in accordance with SANS 1480:2005 and SANS 226:2004	No	1		
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A	ISCA Iscamix 82 chrome plated bath/shower mixer (code: 8200/CH), manufactured in accordance with SANS 1480:2005 and SANS 226:2004	No	6		
B	ISCA Iscamix 89 chrome plated single hole basin mixer (code: 8919/CH), manufactured in accordance with SANS 1480:2005 and SANS 226:2004	No	1		
C	ISCA Iscamix 89 chrome plated single hole basin mixer (code: 8239), manufactured in accordance with SANS 1480:2005 and SANS 226:2004	No	1		
D	Franke Stratos STRX618 1,2/1,5mm thick satin finished stainless steel soap dispenser (Code: 359705), size 100 x 134 x 304mm high with a replaceable and refillable 1 litre container, cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws	No	8		
E	Franke Chronos BS646 satin finished stainless steel single soap dish, size 125 x 90 x 22mm high, with a deep drawn rib tray with holes, plugged and screwed to the wall with stainless steel screws	No	6		
F	Franke Stratos STRX672 1,2/1,5mm thick satin finished stainless steel double toilet roll dispenser (Code: 359716), size 156 x 141 x 303mm high for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws	No	9		
G	Franke Jetstream Airtronic 1,2mm thick brushed finish automatic hands free warm air hand dryer , size 245 x 140 x 167mm high, plugged and screwed to the wall with stainless steel screws	No	1		
H	Franke Stratos STRX600 1,2/1,5mm thick satin finished stainless steel paper towel dispenser , size 300 x 134 x 305mm high with a capacity of 300-400 towels and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws	No	5		
J	Franke Stratos STRX605 1,2/1,5mm thick satin finished stainless steel waste bin, size 300 x 270 x 520mm high, capacity of 34 litres and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws	No	5		
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Attend to, service, re-align and repair as necessary all aluminium doors including aluminium frames and ironmongery including replacing any defective or missing parts, replacing broken glass, etc. re-fixing loose joints where necessary and leaving in complete working order

A	Aluminium single leaf swing door with fixed fanlights and sidelights, overall size 3120x 2600mm high. Refer to the architects drawing number 01-521-0 (Door type DAB)	No	1
B	Aluminium single leaf swing door with fixed fanlights, overall size 900 x 2 032mm high. Refer to the architects drawing number 01-521-0 (Door type DG01)	No	1
C	Aluminium single leaf swing door with fixed fanlights and sidelights, overall size 1 460 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DH01)	No	1
D	Aluminium double leaf swing doors with fixed fanlights and sidelights, overall size 2 500 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DR01)	No	1
E	Aluminium double leaf swing doors with fixed fanlights and sidelights, overall size 3 290 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DS01)	No	1
F	Aluminium double leaf swing doors with fixed fanlights, overall size 1 500 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DT01)	No	1
G	Aluminium single leaf swing door with fixed fanlights and sidelights, overall size 1 460 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DH02)	No	1
H	Aluminium single leaf swing door, overall size 900 x 1 916mm high. Refer to the architects drawing number 01-521-0 (Door type DF02)	No	1
J	Aluminium single leaf swing door, overall size 3 160 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DQ01)	No	1
K	Aluminium single leaf swing door, overall size 3 160 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DQ02)	No	1
L	Aluminium double leaf swing door with fixed fanlights, overall size 3 000x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DK01)	No	1

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A	Aluminium double leaf swing door with fixed fanlights, overall size 3 120 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DAB01)	No	1		
B	Aluminium sliding door, overall size 2 385 x 2 600mm high. Refer to the architects drawing number 01-521-0 (Door type DE01)	No	1		
	<u>Attend to, service, re-align and repair as necessary all timber doors including replacing missing or damaged ironmongery and including replacing any defective or missing parts, replacing broken glass, etc. re-fixing loose joints where necessary and leaving in complete working order</u>				
C	Semi-solid timber flush double leaf swing door, overall size 1 500 x 2 600mm high overall, including 568mm high fanlight, 6.38mm Colourvue deep cool grey coloured laminated safety glassRefer to the architects drawing number 02-221-0 (Door type DL01)	No	1		
D	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN01)	No	1		
E	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN02)	No	1		
F	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN03)	No	1		
G	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN04)	No	1		
H	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN05)	No	1		
J	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN06)	No	1		
K	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN07)	No	1		
	Carried to Abstract				R
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN08)	No	1		
B	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN09)	No	1		
C	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN10)	No	1		
D	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN11)	No	1		
E	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN12)	No	1		
F	Semi-solid timber single leaf swing door, overall size 813 x 1 932mm high overall. Refer to the architects drawing number 01-521-0 (Door type DN13)	No	1		
	<u>Attend to, service, re-align and repair as necessary all aluminium windows including ironmongery including replacing any defective or missing parts, etc. re-fixing loose joints where necessary and leaving in complete working order</u>				
G	Aluminium window with overall size 1200 x 900mm high. Refer to the architects drawing number 01-531-0 (Window type W6)	No	3		
H	Aluminium window with overall size 600 x 900mm high. Refer to the architects drawing number 01-531-0 (Window type W7)	No	18		
J	Aluminium window with overall size 600 x 1020mm high. Refer to the architects drawing number 02-221-0 (Window type W2 - Guardhouse)	No	2		
K	Aluminium window with overall size 3905 x 1200mm high. Refer to the architects drawing number 01-531-0 (Window type W1)	No	2		
L	Aluminium window with overall size 1200 x 1440mm high. Refer to the architects drawing number 01-531-0 (Window type W3)	No	1		
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	Aluminium window with overall size 5190 x 3840mm high. Refer to the architects drawing number 01-531-0 (Window type W4)	No	1		
B	Aluminium window with overall size 5535 x 1615mm high, forming two 90 degree corners. Refer to the architects drawing number 02-221-0 (Window type W1 - Guardhouse)	No	1		
C	Aluminium window with overall size 1200 x 1020mm high. Refer to the architects drawing number 02-221-0 (Window type W2 - Guardhouse)	No	1		
	<u>Attend to, service, re-align and repair as necessary all steel roller shutter doors including steel frames and ironmongery including replacing any defective or missing parts, etc. re-fixing loose joints where necessary and leaving in complete working order</u>				
D	Steel roller shutter door with overall size: 2810 x 3230mm high (Door Type DV). Refer to the Architects door schedule 01-521-0	No	4		
E	Steel roller shutter door with overall size: 3380 x 4165mm high (Door Type DW). Refer to the Architects door schedule 01-521-0	No	4		
F	Steel roller shutter door with overall size: 4820 x 4165mm high (Door Type DX). Refer to the Architects door schedule 01-521-0	No	1		
	<u>Cutting out for and forming plain openings through existing metal roller shutter and installing a hot dipped galvanised removable sheet metal, able to be fixed to the roller shutter opening with one side of the sheet metal to have a welded flange approximately 100 x 50mm in order to be hooked into a receiving latch which is to be welded against the roller shutter and opposite end to have a welded latch for a padlock system, all installed complete</u>				
G	Opening for a 3mm thick removable sheet metal with approximate overall size 300 x 150mm high through existing metal roller shutter	No	5		
	<u>All connection bolts to be checked for proper fastening and all missing bolts to be replaced</u>				
H	15 000 x 3 500mm Pole stacking structure		Item		
	Carried to Abstract				
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A	14 880 x 4 200mm Car Ports		Item	
	<u>CLEAN DOWN SURFACES</u>			
	<u>Clean face brick by means of high pressure water jet</u>			
B	Waterjet facebrick	m ²	999	
	<u>FIRE TILES</u>			
	<u>Paving of 220 x 73 x 36mm "De Hoop Red Klompies" paving bricks pointed with flush joints</u>			
C	36mm Thick bricks laid with butt-joint in herringbone pattern fixed with fireclay to vertical brickwalls	m ²	4	
D	36mm Thick bricks laid with butt-joint in stretcher bond fixed with fireclay on concrete slabs	m ²	8	
E	Extra over brickwork for brick-on-end soldier course	m	4	
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
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ALTERATIONS

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	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 2</u></p> <p><u>WATERPROOFING</u></p> <p>PREAMBLES: For Preambles see "Model Preambles for Trades."</p> <p style="text-align: center;">-----</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 style="text-align: center;">-----</p> <p><u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u></p> <p><u>Prepare substrate and apply "a.b.e" or equal approved "a.b.e Quickprime 2K SF (Solvent free) primer and "a.b.e Quickseal LP 65 Pure Polyurea". The "a.b.e" VIP high pressure polyurea bi-component spray on waterproofing system with a minimum of 2mm thickness (DFT) is to be supplied and installed complete in strict accordance with the manufacturer's recommendations and architects specifications. The complete waterproofing system is to include all necessary repairs to damaged areas with "a.b.e" epidermix 344 and "a.b.e Durarep HS' including 3mm deep x 3mm wide anchor grooves to terminate the "Quickseal LP 65 Pure Polyurea"</u></p>				
A	On flat concrete roofs	m ²	145		
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	<p>Bill No. 2 WATERPROOFING 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

A	On sides of roof beams in turn-ups and turn-downs exceeding 300mm girth	m ²	16		
B	On sides of roof beams in turn-ups and turn-downs not exceeding 300mm girth	m	17		
	<p><u>Prepare substrate and apply "Index Fidiar Unigum P" or equal approved applied through heat fusion to the primed surface. Including a layer of "Index Unigum P" 3mm thick to floors and walls, "a.b.e" or equal approved abedrain 20 P & abedrain G, "Index" Defend H Anti Rootcounter flashings and "index" Fidia P 4mm Gusset angles 100 x 100mm. Refer to waterproofing specification WPSDS-0</u></p>				
C	To planter floors	m ²	6		
D	On planter sides in turn-ups and turn-downs exceeding 300mm girth	m ²	30		
	<p><u>SEALING STRIPS, JOINT SEALANTS, ETC</u></p> <p><u>Prepare and apply "Sikaflex - 1A" or equal approved Polyurethane joint sealant including backing chord</u></p>				
E	Horizontally between brickwork and concrete structure	m	263		
F	Vertically between brickwork and concrete structure	m	158		
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	<p>Bill No. 2 WATERPROOFING 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

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WATERPROOFING

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO 2A</u>				
	<u>BILL NO 3</u>				
	<u>ROOF COVERINGS</u>				
	<u>PREAMBLES</u>				
	For Preambles see "Model Preambles for Trades"				
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
	<u>0.53mm "Klip-Lok 406" clean "Colorbond" steel roof sheeting as supplied by "Global Roofing Solutions" or equal approved. Roof sheeting colour to be "Volcanic Grey" on one side only. Roof sheeting to be installed complete with all fixing accessories, sealing strips to laps and seam stitching. All fixed to steel purlins or rails at approximately 1800mm centres in accordance with the manufacturer's instructions. Refer to Architect's drawing 900(855)-HOUD08 01-203-0</u>				
A	Roof covering with pitch not exceeding 25 degrees	m ²	464		
	<u>0.53mm "Klip-Lok 406" clean "Colorbond" or equal approved flashings as supplied by "Global Roofing Solutions" or equal approved</u>				
B	Side wall flashings	m	104		
	<u>ROOF AND WALL INSULATION</u>				
	<u>80mm thick Lambdaboard high density 35kg/m³ closed cell Polyisocyanurate insulation colour White with Ficotec facing, fixed concurrent with roof covering between steel roof structure with "H" bar joiners screw fixed at 1200mm centres with 5mm gap between boards butt-joined. Refer to architects General Specifications</u>				
C	Fixed to underside of roof sheeting	m ²	464		
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	Bill No. 3 ROOFCOVERING 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 4</u></p> <p><u>CARPENTRY</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles see "Model Preambles for Trades"</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><u>Fire doors</u></p> <p>Fire doors to be in accordance with SANS 1253</p> <p style="text-align: center;">-----</p>				
	Carried to Abstract				R
	<p>Bill No. 4 CARPENTRY 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

DOORS ETC

40mm Thick semi - solid flush doors with commercial veneer suitable for painting on both sides and 10mm minimum thick hardwood edging strips

A	Semi-solid timber flush double leaf swing door, overall size 813 x 2520mm high overall, including 488mm high fanlight, 6.38mm Colourvue deep cool grey coloured laminated safety glass, size 900 x 488 mm. Refer to the architects drawing number 02-221-0 (Door type DC)	No	1
B	Semi-solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DJ)	No	2
<u>40mm Thick solid flush doors with commercial veneer suitable for painting on both sides and 10mm minimum thick hardwood edging strips</u>			
C	Solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DD)	No	5
D	Solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DM01)	No	1
E	Solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DM02)	No	1
F	Solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DM03)	No	1
G	Solid timber flush single leaf swing door, overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DM05)	No	1

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44mm FL&B Batten door - Wrought meranti, with 32mm plywood backing and veneer to match door

A	FLB timber single leaf swing door, overall size 900 x 2 520mm high including bottom hung opening fanlight, 457mm high, with 6.38mm Colourvue deep cool grey coloured laminated safety glass, size 900 x 457mm. Refer to the architects drawing number 02-221-0 (Door type DA)	No	2
B	FLB timber single leaf swing door, overall size 900 x 2 032mm high complete. Refer to the architects drawing number 05-201-0 (Door type DB)	No	1
C	FLB timber double leaf swing door, overall size 1 610 x 2 032mm high complete. Refer to the architects drawing number 05-201-0 (Door type DA)	No	1
D	FLB timber flush single leaf swing door, overall size 813 x 2 032mm high. Refer to the architects drawing number 01-521-0 (Door type DC)	No	1

FIRE DOORS

60 min fire - rated door and frame, consisting of 40mm thick solid flush door with commercial veneer painted on both sides and 10mm minimum thick hardwood edging strip, including all ironmongery and 1.6mm thick hot dip galvanised pressed steel door frame. The fire door and frame are to be supplied and installed complete, including all finishes and building into brickwork or reinforced concrete openings. Fire doors installed in strict accordance with the manufacturer's instructions and in compliance with SANS specifications and carrying the relevant SABS mark for a fire rating. Allow for sealing all around the perimeter of the door frame on both sides with 10 x 10mm flexible silicone sealant with a fire rating to match the fire rating of the fire door. Refer to the architects specifications and the relevant door schedules.

E	Class B fire rated solid timber flush double leaf swing door and pressed steel frame (suitable for 270mm wide walls), overall size 900 x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DZ)	No	4
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120 min fire - rated door and frame, consisting of 40mm thick solid flush door with commercial veneer painted on both sides and 10mm minimum thick hardwood edging strip, including all ironmongery and 2.0mm thick hot dip galvanised pressed steel door frame. The fire door and frame are to be supplied and installed complete, including all finishes and building into brickwork or reinforced concrete openings. Fire doors installed in strict accordance with the manufacturer's instructions and in compliance with SANS specifications and carrying the relevant SABS mark for a fire rating. Allow for sealing all around the perimeter of the door frame on both sides with 10 x 10mm flexible silicone sealant with a fire rating to match the fire rating of the fire door. Refer to the architects specifications and the relevant door schedules

A	Class D fire rated semi-solid timber flush double leaf swing door and pressed steel frame (suitable for 220mm wide walls), overall size 900x 2032mm high. Refer to the architects drawing number 01-521-0 (Door type DAA)	No	1
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FRAMED FRAMES ETC

'Selected' Wrought meranti. Refer to Architect's drawings

B	55 x 90mm Rebated frames plugged	m	19
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C	55 x 90mm Rebated frames plugged, including cill	m	13
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EAVES, VERGES, ETC

Medium density plain fibre cement boards

D	12 x 300mm Fascia and barge boards including galvanised steel H-profile jointing strips	m	182
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	<p>Bill No. 5 JOINERY 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>			

REMOVAL OF EXISTING WORK

Taking down and removing joinery fittings including carting away as necessary and make good remaining surfaces and finishes

- A Docking stations C-shaped (on plan), with overall size of 20 900 x 600 x 750mm high, including, floor cupboards and drawers below, as well as shelves and screens above and 80mm diameter brushed stainless steel supports. Refer to the architects drawing number 109. New docking station measured elsewhere

Item

SERVICING OF EXISTING JOINERY, ETC.

Clean, repair, service and replace missing or defective parts of joinery fittings including doors, handles, hinges etc.

- B Kitchen counter, L-shaped (on plan), with overall size of 5 536 x 600 x 900mm high, including floor cupboards and drawers below and wall cupboards and shelving above. Refer to the architects drawing number 1612_01_111
- C Kitchen counter, L-shaped (on plan), with overall size of 6 616 x 600 x 900mm high, including floor cupboards and drawers below and wall cupboards and shelving above. Refer to the architects drawing number 1612_01_111
- D Kitchen counter, with overall size of 1 270 x 600 x 900mm high, including floor cupboards and drawers below and wall cupboards and shelving above, overall size 1 270 x 300 x 1000mm high. Refer to the architects drawing number 1612_02_202
- E Desk counter, with overall size of 2 970 x 600 x 750mm high, including 32mm thick formica top, floor cupboards and drawers and a 35 x 35mm steel sub support. Refer to the architects drawing number 1612_02_202
- F Reception desk, circular-shaped (on plan), with overall size of 3700 x 600 x 1100mm high, including an upper counter with 2mm brushed and perforated stainless steel sheet fascia and a 30mm thick granite top, a lower counter with a 32mm formica top and solid 15mm x 22mm rounded edging, floor cupboards and drawers below, as well as an adjacent floor cupboard and drawers, overall size 3430 x 750mm x 470mm wide, with 32mm thick formica top with leading edges to match timber veneer. Refer to the architects drawings

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SHELVING

Manufacture, supply and install fixed shelving to complete existing shelving installation. Comprised of 25mm thick Co-Pine top fixed to 250 x 300mm stayless metal support brackets, fixed to brick or reinforced concrete walls. All in installed in accordance with the manufacturers instructions. Refer to the architects drawing 109

A	Fixed shelving 450mm wide	m	28		
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FIXED FURNITURE & FITTINGS

The following joinery fittings have been given as complete units i.e. the individual components of the units have not been measured separately. Descriptions of such units shall, therefore, be deemed to include all components such as cupboard doors, shelves, drawers, ironmongery, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, all metalwork, paint or varnish finishes, etc Prices are to include for all necessary filler pieces against walls etc.

These items are to be priced in conjunction with the drawings referred to in the descriptions, joinery specialists are to provide architect with shop drawings for approval before manufacturing of joinery can begin

B	Supply and install joinery complete for room number 203 (Boardroom). The joinery for this room consists of a 12 seater boardroom table, rectangular-shaped (on plan), with curved edges, overall size of 3 000 x 1 600 x 750mm high, including box legs and access panel below. Refer to the architects drawing number 1612-01-109			Item	
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C	Supply and install joinery to complete existing joinery installation for room number 202 (Reception). Upper counter with 2mm brushed and perforated stainless steel sheet fascia and a 30mm thick granite top. Refer to the architects drawings			Item	
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A Supply and install joinery complete for room number 211 (Docking Stations). The joinery for this room consists of a docking stations C-shaped (on plan), with overall size of 20 900 x 600 x 750mm high, including, floor cupboards and drawers below, as well as shelves and screens above and 80mm diameter brushed stainless steel supports. Refer to the architects drawing number 1612-01-110. Removal of existing docking station measured elsewhere

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 JOINERY
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JOINERY

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	<p>Bill No. 6 FURNITURE AND FITTINGS 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>			

**SUPPLY AND INSTALL THE FOLLOWING FURNITURE
COMPLETE:**

OFFICE WORKSTATIONS

A	DESK CONFIGURATION 2JE (WS1). Desk 1 800 x 1 100 with conference end 900, DH pedestal and 2 no Drawer top retrieval cabinet with top 1 200 x 600 and Cable management. Refer to the architects furniture schedules	No	1
B	DESK CONFIGURATION 2GE (WS2). Desk 1 800 x 1 100 with DH pedestal and 2 Drawer top retrieval cabinet with top 1 200 x 600 and Cable management. Refer to the architects furniture schedules	No	2
C	Round table 1 200mm diameter with X base. Refer to the architects furniture schedules	No	1
D	Modesty Desk Panels. Refer to architects furniture schedule	No	6

OFFICE CHAIRS

E	Executive holly high back desk chair. Refer to the architects furniture schedules	No	2
F	Executive visitors chair. Refer to the architects furniture schedules	No	2
G	High back desk chair. Refer to the architects furniture schedules	No	2
H	Office visitors chair. Refer to the architects furniture schedule	No	4
J	Mid back desk chair. Refer to the architects furniture schedule	No	13

RECEPTION

K	2 Seater Couch. Refer to the architects furniture schedule	No	1
L	High back desk chair. Refer to the architects furniture schedules	No	14

BOARDROOM

M	Executive visitors chair. Refer to the architects furniture schedules	No	13
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	1 200 x 600 x 710mm high Console table. Refer to the architects furniture schedules	No	1		
<u>ACCESSORIES</u>					
B	Metal dustbin. Refer to the architects furniture schedules	No	19		
C	Metal letter tray. Refer to the architects furniture schedules	No	18		
D	Carpet protector: Refer to architects schedule	No	17		
E	Magnetic white board. Refer to the architects furniture schedules	No	6		
F	Pin board. PB9, size 900 x 600mm. Refer to the architects furniture schedules	No	6		
G	PVC framed clock. Refer to the architects furniture schedules	No	7		
H	Orga 8 (Undercounter unit), comprised of 2 Filing, Drawers, Top and Base, 1 utility/stationery drawer, 2 utility boxes, 8 plastic containers, 1 Orga 8 SmartPack. All workstations (Except manager workstation). Refer to the architects furniture schedules	No	3		
J	Orga 15 (4 drawer unit), 4 Filing Drawers, Top and Base with Lock, 60 plastic containers, 4 Orga 15 SmartPacks.1-0 Recommended one per four people in open areas. Refer to the architects furniture schedules	No	3		
<u>MESS AREA</u>					
K	SANGRIA Table 800. Refer to the architects furniture schedules	No	3		
L	GROG Table. Refer to the architects furniture schedules	No	3		
M	Maya polypropylene chair. Refer to the architects furniture schedules	No	32		
<u>BUDGETARY ALLOWANCES</u>					
N	Provide the sum of R30,000.00 as a Budgetary Allowance to be used for taking from store and fixing only of blinds.			Item	
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Bill No. 6 FURNITURE AND FITTINGS 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES					

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Bill No. 6

FURNITURE AND FITTINGS

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Bill No. 6

FURNITURE AND FITTINGS

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	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 7</u></p> <p><u>CEILING AND PARTITIONS</u></p> <p>PREAMBLES: For Preambles see "Model Preambles for Trades."</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>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 are measured elsewhere</p> <p><u>Openings</u></p> <p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p>				
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	<p>Bill No. 7 CEILING, PARTITIONS AND ACCESS FLOORING 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

SUSPENDED CEILINGS

4mm "Nutec" or equal approved fibre cement ceiling boards with H jointing strips fixed to reinforced concrete soffits. Refer to the Architects Internal Finishes Specification

A	4mm "Nutec" fibre cement ceiling suspended not exceeding 1m below concrete soffit	m ²	57	
B	4mm "Nutec" fibre cement ceiling suspended not exceeding 1m below steel rafters	m ²	125	

9.5mm "Rhino" or similar approved gypsum plasterboard to the underside of "Donn T37K" screw up system including main tees and cross tees at 400mm centres with capping of galvanized steel, with taped joints and the whole finished with crestone plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

C	Ceilings suspended not exceeding 1m below concrete slabs	m ²	99	
D	180mm High vertical side of bulkhead	m	58	
E	180mm High vertical side of bulkhead circular on plan	m	8	
F	270mm High vertical side of bulkhead	m	58	

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A	270mm High vertical side of bulkhead circular on plan	m	8		
B	695mm High vertical side of bulkhead	m	15		
C	250mm Wide horizontal side of bulkhead	m	58		
D	250mm Wide horizontal side of bulkhead circular on plan	m	8		
E	Hole for LED downlighter	No	60		
	<u>"GYPWALL MoistureResistant 102F60" or similar approved gypsum plasterboard with taped joints and the whole finished with cretestone plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</u>				
F	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres and cross branderling at 500mm centres nailed to timber trusses	m ²	47		
	<u>600 x 600mm x 15mm Thick square edge "OWAcoustic Cosmos N Premium Class A2-S1" mineral fibre ceiling panels, laid on 1 hour fire rated OWAconstruct S3 butt cut exposed tee suspension system including main tees, cross tees etc, all suspended with galvanized hangers at centres not exceeding 1 200mm, and all installed to manufacturer's specification</u>				
G	Ceilings suspended not exceeding 1m below steel rafters	m ²	134		
	<u>1200 x 600mm x 15mm Thick square edge "OWAcoustic Cosmos N Premium Class A2-S1" mineral fibre ceiling panels, laid on 1 hour fire rated OWAconstruct S3 butt cut exposed tee suspension system including main tees, cross tees etc, all suspended with galvanized hangers at centres not exceeding 1 200mm, and all installed to manufacturer's specification</u>				
H	Ceilings suspended not exceeding 1m below steel rafters	m ²	237		
	<u>"Gyproc" Ceiling system consisting of 2 layers 15mm thick Gyproc FireStop board fixed to secondary framework of steel branderling, including the secondary framework fixed to the primary framework consisting of Gypframe UltraSteel 51mm suspended using Gypframe galvanised steel angle 25mm x 25mm</u>				
J	Ceilings suspended not exceeding 1m below concrete soffit	m ²	113		
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CORNICES

'Donn SM25' or equal approved shadowline wall angle fixed to wall at 300mm centers. Installed in strict accordance with the manufacturer's instructions. Refer to the Architects Finishes Specification

A	Shadowline cornice to suspended ceilings	m	369
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Aluminium 'T' to create shadowline cornice. Refer to the Architects Finishes Specification

B	10 x 30mm Aluminium 'T' to create shadowline fixed to ceiling and brick or reinforced concrete walls to create shadowline cornice.	m	115
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	<u>SECTION NO 2A</u>				
	<u>BILL NO 8</u>				
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
	PREAMBLES: For Preambles see "Model Preambles for Trades."				
	<u>FLOOR COVERINGS</u>				
	<u>"Flowcrete" or equal approved 4mm thick 'Flowfresh SL' epoxy resin floor coating Signal Grey. The floor system is to be installed complete, including all necessary surface preparation as required. The entire floor system is to be applied in strict accordance with manufacturer's instructions. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>				
A	On floors and landings	m ²	109		
	<u>'Belgotex Nexus' or equivalent 'Berberpoint 920, colour Turkey 100% Stainproof Miracle fibre. Carpet tiles to be of size 500 x 500 x 7mm thick and to be heavy commercial. All installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings, with a 10 Year limited warranty against excessive wear. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>				
B	On screeded floors	m ²	70		
	<u>'Belgotex Westminster Broadloom Carpets, colour Tinkle 100% Stainproof Miracle fibre. All installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings, with a 10 Year limited warranty against excessive wear. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>				
C	On screeded floors	m ²	53		
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'Polyflor' SD Collection ESD Antistatic vinyl floor tiles colour Steel Grey (code: 5030), size 608 x 608 x 2mm thick, laid in conductive acrylic adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107

A On screeded floors

m²

55

SKIRTINGS

2 x 100mm Natural Anodised aluminium skirting

B Aluminium skirting fixed to reinforced concrete columns or brick or concrete walls

m

69

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	<u>SECTION NO 2A</u>				
	<u>BILL NO 9</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES:</u> For Preambles, see "Model Preambles for Trades"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Trade Names</u>				
	Where trade names are specified an <u>equivalent to approval</u> shall also be applicable				
	<u>HINGES, BOLTS, ETC</u>				
	<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>				
A	102 x 75 x 3mm Stainless steel ball bearing butt hinge (Code:DBB-SS-009)	No	51		
B	Facility indicator bolt (Code: 37651AS)	No	1		
C	Flush bolt by shopfitter to architect's approval	No	16		
D	160mm Flush bolt (Code DFB-SS-027)	No	4		
E	SS 2BB Butt hinge EN1935GRD13 (Code: JH-BB-STD-2-SS)	No	6		
F	Alufab Art. No. 1075 100x75mm nylon washered aluminium butt hinge, each pair supplied with 16 only 316 grade no. 10x40mm csk pozi headed self tapping screws.	Pairs	4.2		
G	Indicator bolt SC plated IMP (code: CZ80941SCR)	No	15		
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<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>					
A	Howick satin chrome plated brass barrel bolt (code: H100SC)	No	1		
B	Howick satin chrome plated brass necked barrel bolt 100mm long x 32mm wide (Code: H103SC)	No	2		
C	Howick satin chrome plated brass necked barrel bolt 150mm long x 32mm wide (Code: H101)	No	4		
<u>HANDLES</u>					
<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>					
D	Stainless steel tubular handle (Code:CR003)	Sets	2		
E	Stainless steel tubular handle (Code:DPH 301C)	Sets	13		
F	Stainless steel tubular pull handle (Code:DPH301A)	Sets	2		
G	Ring flush pull handle (Code DRP-SS-023)	No	4		
H	110mm high pull handle by shopfitter to architect's approval	No	2		
J	NAR style aluminium handle natural (code: QH26SN)	No	11		
K	22mm diameter tubular stainless steel pull handle 228mm high X 152mm wide X 1,6mm thick with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing. With oval cylinder piercing left hand (Code: SS5D96L22-13SS)	No	6		
L	22mm diameter tubular stainless steel pull handle 228mm high X 152mm wide X 1,6mm thick with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing. With oval cylinder piercing left hand (Code: SS5D96R22-13SS)	No	3		
M	300mm Pull handle flange (code: AL5515-300FLAS)	No	2		
N	Flush finger pull size: 65 x 50mm (code: FFP65x50SS)	No	6		
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A	CB612 - 13SC "Protea" Lever handles with oval cylinder piercing	Pairs	13.0		
B	Swing pull knob & key (Code:MMPP2T5PL)	No	1		
<u>ESCUTCHEONS AND PLATES</u>					
<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>					
C	821RT/C91 escutcheon profile (code: AL582RT-05AS)	No	1		
D	Brass escutcheon profile (PB5375-05SC)	Pairs	3.5		
E	Cylinder escutcheon profile (Code DCE-002)	No	15		
F	Brushed 304 grade stainless steel kick plate 200mm high x 813mm wide x 1,2mm thick with no sharp edges or corners and secured to both faces of door as indicated by architect (door to be hung before measurement of plate is taken)	No	1		
G	Push plate 152x228mm stainless steel RH oval profile, 304SS 228mm high x 152mm wide x 1,2mm thick with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing. With oval profile cylinder piercing right hand. Brushed finish. 304 grade SS (Code SS5023R-13-228W)	No	6		
H	Push plate 170 x 170mm stainless steel RH oval profile, 304SS 170m high x 170mm wide x 1,2mm thick with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing. With oval profile cylinder piercing right hand. Brushed finish. 304 grade SS (Code DPP-SS-CL)	No	13		
J	Push plate 152x228mm stainless steel LH oval profile, 304SS 228mm high x 152mm wide x 1,2mm thick with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing. With oval profile cylinder piercing right hand. Brushed finish. 304 grade SS (Code SS5023L-13-228W)	No	1		
<u>LOCKS</u>					
<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>					
K	Stainless steel keyhole escutcheons (Code:DCE-002)	Sets	3		
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A	Stainless steel multi lever sash lock (Code:D034S)	No	4	
B	Stainless steel multi lever sash lock (Code:D035S)	No	4	
C	Stainless steel indicator set (CODE:DIB-ZST-026)	Sets	15	
D	Stainless steel deadlock (Code:DMWC-SS-008)	No	6	
E	Stainless steel deadlock (Code:D037D)	No	15	
F	Nickel plated rebate set (Code:D034S)	No	4	
G	Heavy duty adjustable roller catch CH forend and striker (code: 764001)	No	2	
H	2 X 13/TSC "Union" oval bathroom/wc cylinder.	No	1	
J	Mortice hook lock 35mm set (code: QH35X85MM-SS)	No	1	
K	Rebate set SC (Code: D038R)	No	2	
L	Union satin chrome on brass rebate conversion set, complete (code: UK2979-13MMSC)	No	1	
M	Oval cylinder deadlock SS (code: L-2141-78SS)	No	7	
N	Anti-thrust night latch W/O cyl (code: L-2341-78SS)	No	1	
P	Oval cylinder lock SS (code: L-2241-78SS)	No	13	
Q	Latch and deadbolt lock w/o cylinder 30mm (code: 4210305NM)	No	11	
R	Latch and deadbolt lock w/o cylinder 30mm (code: 4211305NM)	No	4	
S	J-883T-SIL "Union" double panic bolt 900mm	No	4	
T	Euro-Profile cylinder deadlock SS (code: L-2115-78SS)	No	2	
<u>CYLINDERS</u>				
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<u>"Dormakaba" or equal approved.. Refer to Architect's Ironmongery Specification</u>					
A	2 X 18SCGMK "Union" Euro profile knob cylinder grand master keyed	No	12		
B	2X6SCGMK Cylinder oval GMK	No	19		
C	2X13SCMK Cylinder oval MKD	No	1		
D	2X20SCGMK "Union" Euro profile single cylinder grand master keyed	No	9		
E	Single cylinder (Code DSC054201) 43mm	No	15		
F	65mm Knob cylinder (Code DKC056501)	No	13		
<u>DOOR CLOSERS</u>					
<u>"Dormakaba" or equal approved. Refer to Architect's Ironmongery Specification</u>					
G	Cam action door closer with slide channel arm with hold open & fixing bracket complete ((Code:TS73VHO DC) (Pull-side fixing)	No	13		
H	Parallel arm bracket (Code:DCA154-EV1)	No	1		
J	"Union" DC300 regular arm overhead door closer EN 3-6 SIL	No	1		
K	"Union" DC 744 EN1-6 RA DA (code: 744P)	No	1		
L	"Union" DC860 Assa Abloy Concealed Door Closer EN1-5	No	6		
<u>DOOR STOPS</u>					
<u>"Dormakaba" or equal approved.. Refer to Architect's Ironmongery Specification</u>					
M	Stainless steel floor mounted door stop (Code:DDC-SS-017)	No	32		
N	Wall projection door stop (Code: DDH-SS-020)	No	7		
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CATCHES, CABIN HOOKS, ETC

In accordance with "DORMAKARBA" catalogue

A	Stainless steel hat & coat hook with rubber buffer (Code:DHC-SS-031-B)	No	15	
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SUNDRIES

"Dormakaba" or equal approved.. Refer to Architect's Specification

B	Heavy duty spring door holder (code: SP-B3440SC)	No	7	
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C	MMPP2T5PL. "TESA" swing pull knob outside access device, fitted with union 2X20SCMKD cylinder.	No	2	
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D	ART 500B30 Patent screws and nuts (Code: RH7024)	No	33	
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E	Halcast satin chrome on brass cabin hook and eye 150mm long, plugged and screwed to wall in position indicated by architect. (code: H166-150SC)	No	7	
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F	CISA 12V dc 70 Ohm continuous pulse electric strike. (Code:07083-16-97)	No	3	
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G	Electric strike. (Code:TS101A)	No	1	
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BATHROOM FITTINGS

"Franke" or similar approved

H	32mm Diameter stainless steel angle grab rail, plugged (Code: CNTX700A)	No	1	
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J	32mm Diameter stainless steel straight grab rail, plugged (Code: CNTX600)	No	1	
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A	"Rodan" lockable stainless steel paper towel dispenser, plugged (Code: RODX600)	No	6		
B	"Rodan" 23 litre stainless steel waste bin, plugged (Code: RODX605)	No	4		
C	"Rodan" lockable stainless steel soap dispenser with front push button, plugged (Code: RODX618)	No	6		
D	"Rodan" lockable stainless steel double toilet roll holder, plugged (Code: RODX672)	No	9		
E	Jetstream electronic hand dryer	No	3		
F	Chronos soap dish (Code: 2120073)	No	6		
G	Access Control: Activators, battery back-ups and conduiting by specialist consultant	No	3		
<u>SIGNAGE</u>					
<u>Supply and install the following signage items complete. The contractor is referred to the architects signage schedules SIGN01 and SIGN02, as well as the signage layout drawings</u>					
H	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate (Code: AL5066-06ASE10). Refer to the architects signage schedules (Type A - Male Ablutions)	No	3		
J	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate (Code: AL5066-06ASE11). Refer to the architects signage schedules (Type B - Female Ablutions)	No	2		
K	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate (Code: AL5066-06ASE14). Refer to the architects signage schedules (Type C - Paraplegic Ablutions)	No	1		
L	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate (Code: AL5066-06ASE18). Refer to the architects signage schedules (Type D - Showers)	No	2		
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A	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type E - UPS Room)	No	1		
B	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type F - Stationery Store)	No	1		
C	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type G - Equipment Store)	No	2		
D	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type H - Store)	No	5		
E	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type J - Mess Store)	No	1		
F	'Union' or equivalent 152 x 76mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type B - Security Room)	No	2		
G	'Dowd Engravers' or equivalent 300 x 46mm high. Single Natural Anodized Aluminium slider-face name plates. Refer to the architects signage schedules (Type K - Door Signage)	No	6		
H	'Union' or equivalent 50 x 20mm modular engraved 3mm Aluminium plate with Satin Chrome finish Horizontally fixed. (Code:AL5063E-06SC). Refer to the architects signage schedules (Type L - Door Numbering)	No	43		
J	'Union' or equivalent 50 x 20mm modular engraved 3mm Aluminium plate with Satin Chrome finish. Horizontally fixed. (Code: AL5063E-06SC). Refer to the architects signage schedules (Type C - Door Numbering)	No	4		
K	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5066-06ASE01). Refer to the architects signage schedules (Type M - DB Cupboard)	No	1		
L	'Union' or equivalent 152 x 152mm modular engraved 3mm Aluminium plate. Horizontally fixed. (Code: AL5066-06ASE01). Refer to the architects signage schedules (Type N - FHR Cupboard)	No	1		
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A	'Rocket Signs' or equal approved 175mm High brushed aluminium lettering mounted 35mm away from the wall. Refer to the Architects signage schedules (Type P - Main Entrance). Sign to read "Hout Bay Electrical Depot"	No	1		
B	'Rocket Signs' or equal approved 150mm High brushed aluminium lettering mounted 20mm away from the wall. Refer to the Architects signage schedules (Type Q - Reception). Sign to read "Reception"	No	1		
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	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 10</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles see "Model Preambles for Trades"</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of structural steelwork are deemed to include welding, holes, black bolts, nuts, washers, rivets, bolting, and riveting.</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of structural steel beams and columns are deemed to include all fixing brackets (including cast in items), plates etc. the weight of which are included in the different elements, the Contractor's rate should take into account the making up casting-in, site welding and fixing of these items.</p> <p style="text-align: center;">-----</p> <p><u>HOT DIPPED GALVANISED STEEL COLUMNS</u></p> <p><u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete, including holes, bolts, bolting and lugs, etc</u></p>			
A	75 x 75 x 4mm x 9.42kg/m SHS columns	t	0.20	
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	<p>Bill No. 10 STRUCTURAL STEELWORK 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>			

A	50 x 25 x 3mm x 3.359kg/m SHS columns	t	0.04	
	<u>BOLTS, FASTENERS, ETC.</u>			
	<u>Bolts to columns etc</u>			
B	M16 Gr 4.8 Chemical anchor bolts	No	21	
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 STRUCTURAL STEELWORK
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Bill No. 10

STRUCTURAL STEELWORK

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO 2A</u>				
	<u>BILL NO 11</u>				
	<u>METALWORK</u>				
	<u>PREAMBLES</u>				
	For Preambles see "Model Preambles for Trades"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Descriptions of bolts, anchors, etc</u>				
	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				
	Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
	<u>Aluminium doors, windows, etc</u>				
	Doors and windows shall comply with AAAMSA design criteria				
	Glazing shall comply with SAGGA regulations. Glass shall be toughened safety glass as shown on the window schedules appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules				
	Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed				
	For purpose made windows and doors, refer to drawings annexed to these bills of quantities				
	Carried to Abstract				R
	Bill No. 11 METALWORK 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

The following certificates shall be provided prior to commencement of site work:

- 1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product
 - 2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
- Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described
- 3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
 - 4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked
 - 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years

All windows and doors are to be wrapped in 100 micron thick plastic sleeves for protection when delivered to site.

Tenderers are referred to architect's drawings annexed to these bills of quantities for tender purposes

Finishes

Final product shall be free from all sharp edges

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Ironmongery

All ironmongery to aluminium windows, doors, shopfronts, roller shutter doors etc is to be supplied and fixed by the Contractor. The Contractor is to provide for approval by the Architect samples of these ironmongery. All ironmongery shall be approved by the Architect prior to installation.

The Contractor to supply all relevant shopfronts with catches, handles, hinges etc. to match shop fronts and doors, all to the Architects approval and as per Architect's drawing & schedules.

Sliding gear

All sliding gear to sliding doors to be supplied by the Contractor unless otherwise specified. The Contractor to provide samples for approval by the Architect of these sliding gear on submission of their tenders. All sliding gear shall be approved by the Architect prior to installation.

Joints and sealants

All joints in frames shall be made by mechanical means.

An approved silicone sealant is to be provided for both sides of all internal and external shop fronts between the aluminum frames and brick wall or concrete column and between the aluminium frame and plaster finish.

Protection

The Contractor to ensure that allowances are made for sufficient protection against damage, etc as required until practical completion.

Cleaning

The Contractor to ensure that allowances are made for sufficient cleaning as required.

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WICKET DOOR

Steel wicket door and frame including ironmongery

A Wicket Door and frame with overall size 635 x 1 830mm high cut into existing roller shutter doors

No

9

ALUMINIUM DOORS

Powder coated aluminium doors, colour Volcanic grey including clip 44 shopfront frame, subframes, ironmongery, 6.38mm colourvue deep cool grey laminated safety glass (PVB) N.S, complete with stick on vinyl "Sandblasted Effect" sheeting applied to both sides of glazing on lower panes. The doors are to be supplied and installed complete, including all fixing to brick or reinforced concrete walls. Including sealing all around the perimeter of the door with "Sikaflex 1A" or equal approved silicone sealant on a backing cord 'Duracord' with minimum joint size 6 x 6mm internally and externally. Door frame thresholds are to include "L-Shaped" metal angles to receive the waterproofing turn up, complying with SANS1263 Part 1, glazing in accordance with NBR N Schedule 1 and SABS 0137. All in accordance with the manufacturers instructions. Refer to the architects drawing

B Aluminium double swing door with fixed fanlight and sidelights, overall size 8520 x 3625mm high, forming 90degree corner installation. Refer to the architects drawing (Door type DA)

No

1

Powder coated aluminium doors, colour Volcanic grey including clip 44 shopfront frame, subframes, ironmongery, weather strip to the bottom of the door and 6.38mm Colourvue E Range deep cool grey low emissivity laminated safety glass (PVB) N.S, complete with stick on vinyl "Sandblasted Effect" sheeting applied to the glazing of both sides of the lower panes. The doors are to be supplied and installed complete, including all fixing to brick or reinforced concrete walls. Complying with SANS 1263 Part 1 and glazing in accordance with NBR N Schedule 1 and SABS 0137. All in accordance with the manufacturers instructions. Refer to the architects drawings

C Aluminium single leaf swing door with fixed fanlights overall size 3160x 2600mm high. Refer to the architects drawing (Door type DQ)

No

3

ALUMINIUM WINDOWS

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Powder coated aluminium window, colour Volcanic Grey with 42mm sections including 6.38mm Colourvue deep cool grey coloured laminated safety glass, N.S. complying with SANS 1263 Part 1 and glazing in accordance with NBR N Schedule 1 and SABS 0137, supplied and installed complete, including all ironmongery and fixing to brick or reinforced concrete walls. All in accordance with the manufacturers instructions. Including sealing all around the perimeter of the window with "Sikaflex 1A" or equal approved silicone sealant on a backing cord 'Duracord' with minimum joint size 10 x 10mm internally and externally. Refer to the Architects Drawing numbers 1612_01_114

A	Aluminium window with overall size 3 900 x 1 200mm high. Refer to the architects drawing number 1612_01_114 (W1)	No	2
B	Aluminium window with overall size 1 200 x 1 440mm high. Refer to the architects drawing number 1612_01_114 (W3)	No	5
C	Aluminium window with overall size 1 200 x 900mm high. Refer to the architects drawing number 1612_01_114 (W6)	No	3
D	Aluminium window with overall size 900 x 2 630mm high. Refer to the architects drawing number 1612_01_114 (W5)	No	6
E	Aluminium window with overall size 600 x 900mm high. Refer to the architects drawing number 1612_01_114 (W7)	No	16

ALUMINIUM SHOPFRONTS

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Powder coated aluminium shopfront, colour Volcanic Grey with 42mm sections including 6.38mm Colourvue Deep Cool Grey Low Emissivity Safety Glass N.S, complying with SANS 1263 Part 1 and glazing in accordance with NBR N Schedule 1 and SABS 0137, supplied and installed complete, including all ironmongery and fixing to brick or reinforced concrete walls. All in accordance with the manufacturers instructions. Including sealing all around the perimeter of the window with "Sikaflex 1A" or equal approved silicone sealant on a backing cord 'Duracord' with minimum joint size 10 x 10mm internally and externally. Refer to the architects drawing number 1612_01_114

A	Aluminium shopfront with overall size 5 190 x 4 320mm high. Refer to the architects drawing number 1612_01_114 (DA)	No	1
B	Aluminium shopfront with overall size 5 190 x 3 840mm high. Refer to the architects drawing number 1612_01_114 (W4)	No	1
C	Aluminium shopfront with overall size 4 660 x 3 840mm high. Refer to the architects drawing number 1612_01_114 (W2)	No	1
D	Aluminium shopfront with overall size 2 610 x 3 460mm high. Refer to the architects drawing number 1612_01_114 (DA)	No	1

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	<u>EXISTING ALUMINIUM SHOPFRONTS AND DOORS</u>				
A	Service and repair and replace where necessary all frames, glazing and ironmongery to match existing to the existing shopfronts and doors all in accordance with Architect Drawing 1612_01_115		Item		
	<u>STAINLESS STEEL HANDRAILS</u>				
	<u>Welded grade 316 stainless steel handrails to stair walls:</u>				
B	40mm Diameter handrails with 10mm rod connectors epoxied into walls at 1180mm centres and 40 x 40 x 5mm cover plates as per architects drawing 1612_01_108	m		70	
	<u>STAINLESS STEEL BALUSTRADES</u>				
	<u>Welded grade 316 stainless steel balustrades to stairs</u>				
C	Balustrades 1 000mm high of 40mm diameter grabrail, fixed to 40mm diameter upright posts at 500mm centres and 10mm diameter intermediate balusters at 120mm centres post fixed with and including chemical anchors as per architects drawing 1612_01_108	m		25	
D	Raking balustrades 1 000mm high of 40mm diameter grabrail, fixed to 40mm diameter upright posts at 500mm centres and 10mm diameter intermediate balusters at 120mm centres post fixed with and including chemical anchors as per architects drawing 1612_01_108	m		15	
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
	<u>Galvanised mild steel security gates:</u>				
E	Single gate approximate size 900 x 2 200mm high overall with fixed top panel size 900 x 200mm high, comprising of 60 x 40 x 2mm hollow section frame, middle rail and vertical bars at 100mm centres and fitted with a pair of suitable hinges bolted to wall with and including 100mm expansion bolts	No		1	
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Galvanised mild steel burglar screens comprising of 3.96mm high density wire mesh welded to frame of 70 x 50 x 3mm galvanised square tubing horizontal and vertical bars anchored to wall with galvanised chemical bolts welded to frame:

A	Burglar mesh screen size 7 780 x 1 100mm S6 (refer to architects drawing 1612_01_105)	No	1
B	Burglar mesh screen size 5 860 x 4 066mm S3 (refer to architects drawing 1612_01_105)	No	1
C	Burglar mesh screen size 5 590 x 4 240mm S1 (refer to architects drawing 1612_01_105)	No	1
D	Burglar mesh screen size 5 060 x 4 240mm S2 (refer to architects drawing 1612_01_105)	No	1
E	Burglar mesh screen size 3 730 x 1 100mm S8 (refer to architects drawing 1612_01_105)	No	2
F	Burglar mesh screen size 3 335 x 1 100mm S7 (refer to architects drawing 1612_01_105)	No	1
G	Burglar mesh screen size 1 600 x 1 640mm S5 (refer to architects drawing 1612_01_105)	No	4
H	Burglar mesh screen size 1 600 x 1 220mm S10 (refer to architects drawing 1612_01_105)	No	1
J	Burglar mesh screen size 1 300 x 3 030mm S4 (refer to architects drawing 1612_01_105)	No	3
K	Burglar mesh screen size 1 000 x 1 220mm S9 (refer to architects drawing 1612_01_105)	No	2
<u>Approved rodent mesh</u>			
L	Rodent proofing mesh size 1 110 x 1 520mm overall for louvre type W1 as per drawing 05-201-0	No	1

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BRAAI

A Stainless steel barbecue with double front doors, motor box, light fitting, fibre glass insulation, double switch, potjie hook, charcoal starter, charcoal dispenser, ash disposal pan and 1490 x 590mm stainless steel grill with flue gather connected to 2No. 1800mm long square 500 x 350mm stainless steel flue lengths with galvanised turbo cowls all as per Architects drawing 1612_01_112

No 2

BUDGETARY ALLOWANCES

B Provide the sum of R15,000.00 as a Budgetary Allowance to be used for steel mesh grid trench cover complete

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	<u>SECTION NO 2A</u>				
	<u>BILL NO 12</u>				
	<u>PLASTERING</u>				
	PREAMBLES: For Preambles see "Model Preambles for Trades."				

	<u>SCREEDS</u>				
	<u>3:1 Sand/Cement screeds wood floated, on concrete, including 'Duralatex' or equivalent cement mortar admixture to replace 1 third of the water component in the mix.</u>				
A	30mm Thick on floors and landings	m ²	423		
B	Average 80mm thick screeds to falls and currents	m ²	145		
	<u>SELF-LEVELLING SCREEDS</u>				
	<u>Prime sub-floor and apply "Ardex K15" or similar approved self-levelling compound and finish smooth, all in accordance with manufacturer's instructions:</u>				
C	3mm Thick on existing screeds	m ²	30		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster steel trowelled, on brickwork and small parts concrete.</u>				
D	Two coat plaster on walls	m ²	42		
E	Two coat plaster on narrow widths	m ²	8		
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<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete.</u>				
A	On concrete soffits	m ²	526	
B	On raking concrete soffits of stairs	m ²	17	
<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on existing plaster.</u>				
C	Two coat plaster on walls	m ²	1,125	
D	Two coat plaster on narrow widths	m ²	53	
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PLASTERING

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PLASTERING

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Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 13</u></p> <p><u>TILING</u></p> <p>PREAMBLES: For Preambles see "Model Preambles for Trades."</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p style="text-align: center;">-----</p> <p><u>WALL TILING</u></p> <p><u>Porcelain wall tiles (PC Amount R400,00/m2, supply only delivered to site and allow for waste, excluding VAT) fixed to plaster walls and flush pointed with tinted waterproof jointing compound</u></p>				
A	On walls in splashbacks	m ²	8		
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	<p>Bill No. 13 TILING 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

<u>FLOOR TILING</u>					
	<u>1st Grade Full bodied porcelain tiles (River Grey) Non-slip colour beige, as supplied by "The Tile House" or equal approved, size 600 x 600mm, fixed to screeded floor surfaces (screed elsewhere) with 'Tal Professional' or equal approved tile adhesive, with 5mm joints continuous in both directions. Apply "Tal floor grout" or equal approved, using a notched trowel, colour light grey. Grout joints not exceeding 5mm wide and excess grout on the surface to be cleaned with water as work proceeds. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>				
A	On floors and landings	m ²	84		
	<u>1st Grade Full bodied porcelain tiles (Ash Brown Soil) Non-slip colour beige, as supplied by "The Tile House" or equal approved, size 600 x 600mm, fixed to screeded floor surfaces (screed elsewhere) with 'Tal Professional' or equal approved tile adhesive, with 5mm joints continuous in both directions. Apply "Tal floor grout" or equal approved, using a notched trowel, colour light grey. Grout joints not exceeding 5mm wide and excess grout on the surface to be cleaned with water as work proceeds. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>				
B	On floors and landings	m ²	320		
C	On sloping ramp floors and landings	m ²	12		
D	On treads and risers of stairs	m ²	17		
	<u>SUNDRIES</u>				
	<u>Aluminium straight edge trim (code: AESE100) as per "kirk marketing" or equal approved. Refer to the Architects Finishes Specification</u>				
E	Aluminium straight edge trim	m	26		
	<u>25 x 10mm High mill finish aluminium tile-in stair nosing as per "kirk Marketing" (code: ATIN 100.MF) or equal approved</u>				
F	Aluminium stair nosing	m	21		
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	<u>SECTION NO 2A</u>			
	<u>BILL NO. 14</u>			
	<u>PLUMBING & DRAINAGE</u>			
	PREAMBLES: For Preambles see "Model Preambles for Trades."			
	<u>SANITARY FITTINGS</u>			
	Supply and fix the following sanitary fittings including assembly forming all joints and connections, bedding, pointing, building in, cutting and pinning, plugging and screwing and making good as necessary.			
	All prices for sanitary fittings shall include, purpose made white fungus proof silicon sealant to porcelain fittings clear fungus proof silicon sealant in between stainless steel sink and worktop/wall edges.			
	<u>"Lecico" or similar approved</u>			
A	485 x 370 x 135mm Square white wash hand basin (Code: INDBASCTOP0470BC) counter top basin	No	3	
B	558 x 463 x 185mm Round white wash hand basin (Code: LAW55) with one taphole, basin fixed to wall with two galvanised mild steel brackets bolted to wall with and including four 4 x 6mm anchor bolts	No	1	
C	570 x 460 x 220mm "Sumaya" Round white wash hand basin (Code: LSW) with one taphole, basin fixed to wall with two galvanised mild steel brackets bolted to wall with and including four 4 x 6mm anchor bolts	No	7	
D	360 x 337 x 557mm White wall hung urinal (Code: LGEOU) including "FJ" urinal pipe offset (Code: FJT5-5/N), and two hanger brackets.	No	4	
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	521 x 357 x 376mm WC suite (Code: LSYDWHP) comprising pan with double flap heavy duty wooden white seat (SW) and concealed Grohe Uniset cistern (G38643001) with and including Grohe Skate Acuator plate white (G38732SHO) build into walls	No	8	
B	443 x 855 x 731mm "Atlas paraplegic" close couple WC (Code: PARSET CCB0RAIBE) with matching 9 litre cistern complete with lid, fitments, and purpose made C.P. side-flush lever (left or right) and supplied with purpose made urea seat and cover plate, including wall mounted dogleg and cistern mounted grab rail	No	1	
C	MDF Universal toilet seat (Code: CHISEASTD0MDFUC)	No	1	
<u>Showers</u>				
<u>Cobra or equivalent</u>				
D	Vandalproof shower rose (Code: KP2.6)	No	6	
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Bill No. 14
PLUMBING AND DRAINAGE
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TAPS, VALVES, MIXERS, ETC.

Taps

Cobra or equivalent

A	Cobra Watertech "Gala" (code: GA-651)15mm chrome plated single lever basin mixer with classic handle. Refer to SAN01S-0- Sanitary Schedule.	No	3
B	Wall spout (Supplier code: DA-066TUWT220)- 'Damara' Spout - Chrome - Wall Spout Notes: Includes: Spout ; Sliding wall flange; DZR Brass Chrome Plated 273mm. Refer to the architects specifications and schedules. Refer to SAN01S-0- Sanitary Schedule.	No	2
C	15mm KM2.301 CP Undertile metering stoptap. Refer to SAN01S-0- Sanitary Schedule.	No	8
D	Cobra Watertech 20mm standard brass hose bibtap (code: 108LK-20) with lockshield, loose key, wingnut and lining, manufactured in accordance with SANS 226:2009 Type 1 (BS 1010).Refer to SAN01S-0- and SAN02S-0 Sanitary Schedules.	No	5

Valves

Cobra or equivalent

E	Cobra Watertech 15mm ball type angle valve (Code: 232-10). Refer to SAN01S-0- Sanitary Schedule.	No	9
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Mixers

ISCA or equivalent

F	ISCA Iscamix 89 chrome plated single hole basin mixer (code: 8239), manufactured in accordance with SANS 1480:2005 and SANS 226:2004. Refer to SAN01-0- and SAN02-0 Sanitary Schedules.	m	1
G	ISCA Garda chrome plated single hole sink mixer (code: 9104/1/CH), manufactured in accordance with SANS 1480:2005 and SANS 26:2004. Refer to SAN01S-0-Sanitary Schedule.	No	2

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A	ISCA Iscamix 82 chrome plated bath/shower mixer (code: 8200/CH), manufactured in accordance with SANS 1480:2005 and SANS 226:2004. Refer to SAN01S-0- Sanitary Schedule.	No	1		
B	ISCA Iscamix 89 chrome plated single hole basin mixer (code: 8919/CH), manufactured in accordance with SANS 1480:2005 and SANS 226:2004. Refer to SAN01S-0- Sanitary Schedule.	No	1		
<u>Cobra or equivalent</u>					
C	"Solid" sink mixer P/T (Code: BTMT10020, CP)	No	1		
D	Mixed solid shower mixer (Code: BTMT80000)	No	1		
E	"Moon" sink mixer J Sout P/T (Code: BTMT10019, CP)	No	1		
F	15mm Mixed solid basin mixer STD (Code: BTMT80010)	No	1		
G	15mm "Neo" wall spout 250mm long (Code BTSA10200)	No	2		
<u>TRAPS, PIPES, ETC.</u>					
<u>Traps</u>					
<u>"Wirquin" drains or similar approved</u>					
H	Square shower waste trap with stainless steel grid complete (Code:373 SQ)	No	2		
<u>SUNDRIES</u>					
<u>Bathroom Fittings</u>					
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<u>Franke or equivalent</u>					
A	Franke Stratos STRX672 1,2/1,5mm thick satin finished stainless steel double toilet roll dispenser (Code: 359716), size 156 x 141 x 303mm high for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- and SAN02-0 Sanitary Schedules.	m	3		
B	Franke Stratos STRX618 1,2/1,5mm thick satin finished stainless steel soap dispenser (Code: 359705), size 100 x 134 x 304mm high with a replaceable and refillable 1 litre container, cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- and SAN02-0 Sanitary Schedules.	No	2		
C	Franke Chronos BS646 satin finished stainless steel single soap dish (Code: 359863), size 125 x 90 x 22mm high, with a deep drawn rib tray with holes, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- Sanitary Schedule.	No	3		
D	Franke Jetstream Airtronic 1,2mm thick brushed finish automatic hands free warm air hand dryer (Code: 359989), size 245 x 140 x 167mm high, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- Sanitary Schedule.	No	1		
E	Franke Stratos STRX600 1,2/1,5mm thick satin finished stainless steel paper towel dispenser (Code: 359700), size 300 x 134 x 305mm high with a capacity of 300-400 towels and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- and SAN02-0 Sanitary Schedules.	No	3		
F	Franke Stratos STRX605 1,2/1,5mm thick satin finished stainless steel waste bin (Code: 359730), size 300 x 270 x 520mm high, capacity of 34 litres and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws. Refer to SAN01-0- and SAN02-0 Sanitary Schedules..	No	3		
<u>VAAL or equivalent</u>					
G	VAAL 32mm diameter stainless steel grab rail (Code: DL2). Refer to SAN01-0- Sanitary Schedule.	No	1		
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A	VAAL 32mm diameter stainless steel grab rail around cistern (Code: SR2). Refer to SAN01-0- Sanitary Schedule.	No	1
<u>RAINWATER DISPOSAL</u>			
<u>125 x 85 x 85mm Aluminium domestic OG type gutter, including all aluminium alloy fixing brackets, fixed as per approved patent and 50 x 75mm seamless type fluted aluminium downpipe including holder bats and accessories necessary for fixing gutters to steel roof structure and downpipes to brick or reinforced concrete walls, all in accordance with the manufacturers instructions. Gutters and downpipes to have a powder epoxy type finish. Refer to External Finishes Specification</u>			
B	125 x 85 x 85mm Aluminium roof gutter	m	53
C	50 x 75 mm Seamless type fluted aluminium rainwater downpipe	m	45
D	Extra over gutter for stopped end	No	6
E	Extra over gutter for outlet for 50 x 75mm rainwater downpipe	No	11
F	Extra over rainwater pipe for swan-neck	No	11
G	Extra over rainwater pipe for shoe	No	11
H	Extra over for downpipe outlet	No	9

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	<u>SECTION NO 2A</u>				
	<u>BILL NO 15</u>				
	<u>GLAZING</u>				
	PREAMBLES: For Preambles see "Model Preambles for Trades." <p style="text-align: center;">-----</p>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	The glazing shall comply to SANS 2001 CG1 regarding installation requirements. The thickness of the glass for window will be according to SANS 10400m ³ <p style="text-align: center;">-----</p>				
	<u>GLAZING TO ALUMINIUM WITH CLIP-ON BEADS</u>				
	<u>6.38mm "Colourvue Deep Cool Grey" coloured laminated safety glass to comply with SANS 1263 Part 1, including re-using existing glazing beads</u>				
A	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	5		
B	Panes exceeding 0,5m ² and not exceeding 2m ²	m ²	5		
	<u>6.38mm "Colourvue E Range Deep Cool Grey" low emissivity laminated safety glass to comply with SANS 1263 Part 1, including re-using existing glazing beads</u>				
C	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	5		
D	Panes exceeding 0,5m ² and not exceeding 2m ²	m ²	5		
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4mm "Obscure" clear float glass comply with SANS 1263 Part 1, including re-using existing glazing beads

A	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	5
B	Panes exceeding 0,5m ² and not exceeding 2m ²	m ²	5

MIRRORS

5mm Thick silvered float glass copper backed mirrors with 12mm bevelled and polished edges fixed to wall surface with chrome mirror screws.

Bathroom mirrors

C	Mirror size 600 x 1050mm high	No	1
D	Mirror size 600 x 1200mm high	No	6

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GLAZING

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Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO 2A</u></p> <p><u>BILL NO 16</u></p> <p><u>PAINTWORK</u></p> <p>PREAMBLES: For Preambles see "Model Preambles for Trades."</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Paint specifications</u></p> <p>All painting shall be done in accordance with "Plascon specifications" unless otherwise described - refer to addendum for guarentees etc</p> <p><u>Colours</u></p> <p>Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091</p> <p style="text-align: center;">-----</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>Prepare and apply one coat of "Dulux" or equal approved Professional Plaster Primer and two coats of "Dulux" or equal approved super acrylic PVA emulsion paint. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 113</u></p>				
A	On internal plastered walls	m ²	3		
	Carried to Abstract				R
	<p>Bill No. 16 PAINTWORK 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES</p>				

ON INTERNAL PLASTERBOARD SURFACES

Prepare and apply one coat of 'Dulux Trade Ecosure' plaster primer, one coat of 'Dulux Trade Universal Undercoat' and two coats of 'Dulux Trade Pearl glo Solvent Based Eggshel Enamel', all as supplied by 'Dulux' or equivalent, of approved colour. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 113

A	On internal plasterboard ceilings	m ²	210	
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ON EXTERNAL FIBRE CEMENT SURFACES

Prepare and apply one coat of 'Dulux Trade Ecosure' plaster primer, one coat of 'Dulux Trade Universal Undercoat' and two coats of 'Dulux Trade Pearl glo Solvent Based Eggshel Enamel', all as supplied by 'Dulux' or equivalent, of approved colour.

B	On soffits of 'Nutech' fibre reinforced cement ceiling board	m ²	182	
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C	Fascias and barge boards, including priming metal jointing strips	m ²	115	
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ON WOOD SURFACES

Prepare and apply one coat of "Plascon" Woodcare pre-treatment or equal approved, one coat "Plascon" Ultra Varnish or equal approved and two coats thinned "Plascon" Woodcare Ultra Varnish or equal approved. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107

D	Doors	m ²	23	
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One coat wood primer, one undercoat and two coats 'Plascon Velvaglo' enamel paint

E	Doors	m ²	15	
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<u>PAINTWORK ETC TO PREVIOUSLY PAINTED SURFACES</u>					
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>					
<u>Prepare and apply one coat of "Dulux" or equal approved Professional Plaster Primer and two coats of "Dulux" or equal approved super acrylic PVA emulsion paint. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 107</u>					
A	On internal plastered walls	m ²	937		
<u>Prepare and apply one coat "Dulux" or equal approved Professional Plaster Primer and two coats washable emulsion. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 113</u>					
B	On internal plastered walls	m ²	1,119		
<u>ON INTERNAL GYPSUM PLASTER SURFACES</u>					
<u>Prepare and apply one coat of 'Dulux Trade Ecosure' plaster primer, one coat of 'Dulux Trade Universal Undercoat' and two coats of 'Dulux Trade Pearlgló Solvent Based Eggshel Enamel', all as supplied by 'Dulux' or equivalent, of approved colour. Refer to the Architects Finishes Specification and Architect's Drawing 1612 01 113</u>					
C	On internal skimmed concrete soffits	m ²	526		
D	On internal skimmed concrete soffits sloping	m ²	53		
<u>ON INTERNAL PLASTERBOARD SURFACES</u>					
<u>Prepare and apply one coat of 'Dulux Trade Ecosure Plaster Primer', and two coats of 'Dulux Trade Matt 65 PVA', all as supplied by 'Dulux' or equivalent, of approved colour. Refer to the Architects Finishes Specification and General Specifications document</u>					
E	Ceilings	m ²	81		
F	On soffits of internal plasterboard bulkheads	m ²	25		
G	On sides of internal plasterboard bulkheads	m ²	38		
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ON EXTERNAL PLASTERED SURFACES

Prepare and apply one coat "Dulux" Professional Plaster Primer and two coats Superior low sheen. Refer to the Architects Finishes Specification and General Specifications document

A	On external plastered walls	m ²	158	
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ON EXTERNAL FIBRE CEMENT SURFACES

Prepare and apply one coat of 'Dulux Trade Ecosure' plaster primer, one coat of 'Dulux Trade Universal Undercoat' and two coats of 'Dulux Trade Pearlgló Solvent Based Eggshel Enamel', all as supplied by 'Dulux' or equivalent, of approved colour.

B	On soffits of 'Nuteç' fibre reinforced cement ceiling board	m ²	117	
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ON WOOD SURFACES

Prepare and apply one coat of "Plascon" Woodcare pre-treatment or equal approved, one coat "Plascon" Ultra Varnish or equal approved and two coats thinned "Plascon" Woodcare Ultra Varnish or equal approved. Refer to Architect's Finishing Specification

C	Doors	m ²	26	
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D	Door frames, etc	m ²	34	
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E	On 'Selected Meranti' timber skirting's not exceeding 300mm girth	m	66	
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F	On Timber benches	m	32	
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One coat wood primer, one undercoat and two coats 'Plascon Velvaglio' enamel paint

G	Doors	m ²	72	
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ON METAL SURFACES

Prepare and apply one coat of "Galvogrip" or equal approved self-etching primer and two coats "Plascon" Velvagio or equal approved polyurethane satin gloss enamel paint. Refer to Architect's Finishing Specification

A	Door frames, etc	m ²	76		
B	Grids, etc	m ²	1		

PAINTING ON STRUCTURAL STEEL

All steel to be checked for chip marks and corrosion and to be cleaned, "cold galvanised" treated Prepare and apply duplex corrosion protection system: Post-fabrication & trial assembly: hot dip galvanised to sans 121:2000 (heavy duty) - un-passivated microblast with garnet slag to achieve a water break free surface rough profile. Then prepare and apply one coat of epoxy primer to a DFT of 60 microns, one coat of re-coatable polyurethane finishing to a DFT of 30 micron (Colour to Architect's specification).

C	On structural steel members	m ²	473		
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	<u>BILL NO. 17</u>				
	<u>EXTERNAL WORKS</u>				
	<u>PREAMBLES:</u> For Preambles, see "Model Preambles for Trades"				
	<u>DEMOLITIONS</u>				
	<u>Breaking down and removing brickwork pier</u>				
A	Brickwork pier column (at main entrance)	m ³	3		
	<u>Breaking down and removing concrete</u>				
B	RC Base to brickwork pier column	m ³	0.2		
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
	<u>Site clearance</u>				
C	Digging up and removing builders rubble, rubbish, debris, vegetation, hedges, shrubs, bush, weeds, etc and trees not exceeding 200mm girth	m ²	2,199		
	<u>Excavation in earth not exceeding 2m deep</u>				
D	Holes	m ³	1		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
E	Soft rock	m ³	0.2		
F	Hard rock	m ³	0.1		
	<u>Extra over all excavations for carting away</u>				
G	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1		
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	<u>Risk of collapse of excavations</u>				
A	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	4		
	<u>Keeping excavations free of water</u>				
B	Keeping excavations free of all water other than subterranean water		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 100% Mod AASHTO density</u>				
C	Backfilling to trenches, holes, etc	m ³	1		
	<u>Garden soil filling supplied by the contractor (3 parts top soil, 1 part compost and 1 part milled pine bark)</u>				
D	In plant boxes	m ³	9		
	<u>UNREINFORCED CONCRETE</u>				
	<u>15MPa/20mm concrete</u>				
E	<u>Filling to cavity of hollow walls</u>	m ³	0.2		
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa/20mm concrete</u>				
F	Bases in foundations (Provisional)	m ³	0.2		
	<u>TEST CUBES</u>				
G	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional). One set of test cubes generally consists of one concrete test cube tested at 7 days and three cubes tested at 28 days. The cube results are to be forwarded to the engineer immediately after testing.	Sets	1.0		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
H	Allow for all sizes of rebar	t	0.21		
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	<u>High tensile steel reinforcement to structural concrete work</u>				
A	Allow for all sizes of rebar	t	0.04		
	<u>Steel reinforcement to structural concrete work</u>				
	<u>BRICKWORK</u>				
	<u>FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
B	One brick walls in foundations (Provisional)	m ²	1		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP (14 MPa nominal compressive strength) bricks in class II mortar</u>				
C	One brick walls	m ²	5		
	<u>FACE BRICKWORK</u>				
	<u>Extra over NFP brickwork for class FBX face brickwork in class I cement mortar.</u>				
D	Extra over NFP brickwork for face brickwork to walls	m ²	53		
	<u>Brickwork reinforcement</u>				
E	75mm Wide reinforcement built in horizontally	m	8		
	<u>EXTERNAL PLASTER</u>				
	<u>Cement plaster steel trowelled, on brickwork and small parts concrete.</u>				
F	Two coat plaster on brick piers	m ²	53		
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PAINTWORK ON EXTERNAL PLASTERED SURFACES

Prepare and apply one coat "Dulux" Professional Plaster Primer and two coats Superior low sheen. Refer to the Architects Finishes Specification 50/2017/18-FIN01-0 and General Specifications document 50/2017/18-SPEC-0

A	On external plastered walls	m ²	53	
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FENCING

Site Clearance

B	Clear away all grass, bushes, rubble, etc. and level surface of ground for a width of 1000mm under fencing, including filling in depressions with clean earth filling and compacting	m	85	
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"Cochrane ClearVu" or similar approved high density pressed mesh panel fencing, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with 'Marine Bond Fusion' coating with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post including locking recess mechanism at 3,382m centres with sealed end caps with posts bedded in 15MPa 20mm aggregate concrete bases size 400 x 400 x 700mm deep:

C	2 100mm High PVC coated (Colour: Anthracite, RAL7021) welded mesh panels of 76.2 x 12.7mm apertures with D-profile horizontal reinforcing bends, panels fixed onto posts (posts elsewhere) with and including spider fixators and security bolts	m	85	
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D	2.5 x 100mm High PVC coated (Colour: Anthracite, RAL7021) serrated steel all-in-one top guard with pre-drilled holes and fixed to top of fence (fence elsewhere) with and including security bolts	m	85	
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E	76 x 76 x 1.6mm PVC coated (Colour: Anthracite, RAL7021) galvanised steel corner post 2 100mm high including post cap, post set in 400 x 400 x 700mm concrete base (15MPa) including necessary excavation, backfilling, etc.	No	4	
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F	76 x 76 x 1.6mm PVC coated (Colour: Anthracite, RAL7021) galvanised steel intermediate post 2 100mm high including post cap, post set in 400 x 400 x 700mm concrete base (15MPa) including necessary excavation, backfilling, etc.	No	25	
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SERVICING OF MILD STEEL WELDED GATES, ETC.

Attend to, service, re-align and repair as steel gates including servicing the electric motor, replacing any defective or missing parts:

A Vehicular sliding gate overall size 4000 x 2436mm high mechanically operated, consisting of 100x60x3mm mild steel square hollow sections and 150x100x3mm mild steel rectangular hollow section frame, welded and mitred at corners, including ironmongery and Cochrane ClearVu mesh infill panels formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wire fixed to frame as per manufacturer. Frame consists of 120x120x3mm square tubing guiding tubing. Both gates move in the same direction. Steelworker specialist is to supply the architects with samples for approval. All installed complete in accordance with the manufacturers specifications. Refer to the architects drawing numbers 301-0 (Type DA)

No

1

Attend to, service, re-align and repair fence including, replacing any defective or missing parts: Clearvue fencing needs to be cleaned and all fixings to be checked. Baseplate fixing bolts loose and some already rusting, all to be rechecked and replaced as needed. Many fence panels where found bent but still intact Additional supporting angle to secure fence still to be installed

B Cochrane ClearVu Invisible wall mesh panel fencing 1.80m high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires with Marine Fusion Bond coating colour Black with aperture size 76.2mm x 12.7mm and reinforced V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 x 45mm taper locking posts 2.4m high including Locking Recess Mechanism at 3.382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in concrete bases. Refer to Architects finishes specification EFIN02-0 & Architect's drawing 302-0, including all necessary hollow sections posts.

m

237

Attend to, service, re-align and repair 8 strand electrical fence including, replacing any defective or missing brackets, missing wire strands, etc complete and leave in working order.

C 8 strand electrical fence

m

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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARY AND GENERAL</u>			
	<u>CONTRACTUAL REQUIREMENTS</u>			
A	Tenderers to allow for compliance with all the Conditions of this Contract	Item		
	<u>JOINT TRADES</u>			
B	Tenderers to allow for all costs which may be required in order to co-ordinate and liaise with other Trade Contractors, especially with the Main Contractor and Builder.	Item		
	<u>SUPERVISOR</u>			
C	Tenderers to allow for a full time working Supervisor for the duration of the Contract, who shall have delegated authority to receive instructions and make decisions regarding this Contract	Item		
	<u>SITE ESTABLISHMENT</u>			
D	Tenderers to allow for all cost which may be required in order to place the necessary facilities on site for safe storage and orderly management purposes, for the duration of the Contract	Item		
	<u>REMOVAL OF WASTE</u>			
E	Tenderers to allow for all costs associated with cleaning the site of all rubbish and waste caused by this Contract	Item		
F	CARRY OUT TESTS AS SPECIFIED IN SANS 10142 AND ISSUE CERTIFICATE OF COMPLIANCE FOR BUILDINGS	Item		
	<u>GENERAL ITEMS</u>			
G	Any additional items that the tenderer deems necessary for the successful and total completion of the Electrical Installation, required by this Specification and Drawings. Specify	Item		
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	Bill No. 1 PART 1 PRELIMINARY AND GENERAL 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 2</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<u>These DBs' have been supplied and are mounted on site but not completely installed. The wiring must be completed, including the 12 month guarantee on the Distribution Board. Refer to the pictures included to the specification document.</u>			
A	Install Main-DB - Installation finishings, vacuuming (cleaning) Testing, labelling and COC	No	1	
B	Install Sub DB-1 - Installation finishings, vacuuming (cleaning) Testing, labelling and COC	No	1	
C	Install Sub DB-2 - Installation finishings, vacuuming (cleaning) Testing, labelling and COC	No	1	
	<u>EARTH ELECTRODES</u>			
	<u>Earth electrodes, 3.6m long installed as follows:</u>			
	<u>Driven into ground</u>			
D	Supply	No	2	
E	Install	No	2	
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	Bill No. 2 PART 2: SCHEDULE A: DISTRIBUTION BOARDS & GENERATOR 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

GENERATOR

A The 165kVA Generator has been installed with as per Section B2.10 of the Electrical Specification. The generator must be retested, serviced as per the manufacturers' requirements and a full set of maintenance spares to be replaced. The commisioning should meet the requirements as described in the electrical specification document. Complete with recommissioning & Client training. Including a 12 month guarantee on the generator.

No 1

DBS

B Complete check and retesting of all installed distribution boards on site .Including a 12 month guarantee on the DBS

No 1

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 PART 2: SCHEDULE A: DISTRIBUTION BOARDS & GENERATOR
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PART 2: SCHEDULE A: DISTRIBUTION BOARDS & GENERATOR

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PART 2: SCHEDULE A: DISTRIBUTION BOARDS & GENERATOR

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	<u>SECTION NO. 2B</u>				
	<u>BILL NO. 3</u>				
	<u>CABLES, WIRING AND EARTH WIRE</u>				
	<u>Wiring</u>				
	<u>Supply and install PVC insulated conductors in conduits or wire trunking</u>				
	<u>1.5mm² wire</u>				
A	Supply	m	3,000		
B	Install	m	3,000		
	<u>2.5mm² wire</u>				
C	Supply	m	18,000		
D	Install	m	18,000		
	<u>4mm² wire</u>				
E	Supply	m	2,100		
F	Install	m	2,100		
	<u>6mm² wire</u>				
G	Supply	m	900		
H	Install	m	900		
	<u>2.5mm² twin and earth wire</u>				
J	Supply	m	1,000		
K	Install	m	1,000		
	Carried to Abstract				R
	Bill No. 3 PART 2: SCHEDULE B: CABLES, WIRING AND EARTH WIRE 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

<u>Cables</u>					
<u>6mm² PVC/SWA/PVC 3 core CU cable</u>					
A	Supply	m	300		
B	Install	m	300		
<u>16mm² PVC/SWA/PVC 4 core CU cable</u>					
C	Supply	m	150		
D	Install	m	150		
<u>35mm² PVC/SWA/PVC 4 core CU cable</u>					
E	Supply	m	60		
F	Install	m	60		
<u>Bare copper earth wire</u>					
<u>10mm²</u>					
G	Supply	m	100		
H	Install	m	100		
<u>16mm²</u>					
J	Supply	m	60		
K	Install	m	60		
<u>Trenching</u>					
L	Trenching in soft soil, 800mmD x 400mmW	m			
M	Trenching through hard rock, 800mmD x 400mmW	m			
<u>Ducts, 50mm dia</u>					
N	Supply	m			
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PART 2: SCHEDULE B: CABLES, WIRING AND EARTH WIRE					
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A	Install	m			
	<u>Ducts, 75mm dia</u>				
B	Supply	m			
C	Install	m			
	<u>Ducts, 110mm dia</u>				
D	Supply	m			
E	Install	m			
	<u>LV CABLE TERMINATIONS</u>				
	<u>Supply and install 600/1000 V PVC PVC SWA PVC cable termination</u>				
	<u>6 mm² x 3C (Cu)</u>				
F	Supply	No	50		
G	Install	No	50		
	<u>16 mm² x 4C (Cu)</u>				
H	Supply	No	15		
J	Install	No	15		
	<u>35 mm² x 4C (Cu)</u>				
K	Supply	No	6		
L	Install	No	6		
	<u>BARE COPPER TERMINATIONS</u>				
	<u>Supply and install 600/1000 V PVC PVC SWA PVC cable termination</u>				
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COMPLETION OF HOUT BAY ELECTRICAL DEPOT
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	<u>10mm²</u>				
A	Supply	No	15		
B	Install	No	15		
	<u>25mm²</u>				
C	Supply	No	6		
D	Install	No	6		
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PART 2: SCHEDULE B: CABLES, WIRING AND EARTH WIRE
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 4</u>			
	<u>CONDUITS AND ACCESSORIES</u>			
	<u>20mm diameter PVC conduit surface mounted</u>			
A	Supply	m	200	
B	Install	m	200	
	<u>20mm diameter PVC conduit chased in wall or floor</u>			
C	Supply	m	100	
D	Install	m	100	
	<u>25mm diameter PVC conduit chased in wall or floor</u>			
E	Supply	m	200	
F	Install	m	200	
	<u>32mm diameter PVC conduit surface mounted</u>			
G	Supply	m	200	
H	Install	m	200	
	<u>20mm diameter Galvanised steel conduit (Bosal) surface mounted</u>			
J	Supply	m	100	
K	Install	m	100	
	<u>25mm diameter Galvanised steel conduit (Bosal) surface mounted</u>			
L	Supply	m	200	
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	Bill No. 4 PART 2: SCHEDULE C: CONDUITS AND ACCESSORIES 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

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A	Install	m	200		
	<u>PVC round draw box with cover plates</u>				
B	Supply	No	200		
C	Install	No	200		
	<u>Galvanised steel round draw box with cover plate</u>				
D	Supply	No	50		
E	Install	No	50		
	<u>100mm x 100mm Galvanised steel box</u>				
F	Supply	No	10		
G	Install	No	10		
	<u>100mm x 50mm Galvanised steel box</u>				
H	Supply	No	31		
J	Install	No	31		
	<u>300 mm wide x 50mm high sides welded wire mesh cable basket complete with bends, risers, droppers and fixtures</u>				
K	Supply	m			
L	Install	m			
	<u>Two tier PVC power skirting Cabstrut Jupiter range complete with lids, elbows, tees & end caps</u>				
M	Supply	m	100		
N	Install	m	100		
	<u>127 x 76 mm trunking (OL9000 or similar) c/w cover</u>				
P	Supply	m	50		
Q	Install	m	50		
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	PART 2: SCHEDULE C: CONDUITS AND ACCESSORIES				
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<u>300mm x 300mm Galvanised steel draw box</u>					
A	Supply	No	5		
B	Install	No	5		
<u>100mm x 150mm x 75mm Weatherproof box with through connectors for one 1ph circuit 4mm2 cable.</u>					
C	Supply	No	25		
D	Install	No	25		
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Bill No. 4 PART 2: SCHEDULE C: CONDUITS AND ACCESSORIES 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES					

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PART 2: SCHEDULE C: CONDUITS AND ACCESSORIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>LIGHT FITTINGS</u>			
	<u>Supply and install the following light fittings, equal or equivalent to the given, delivered to site. Installation must make provision for lamps, transformers (where applicable), wiring, connections and earthing.</u>			
	<u>Type A - Equal or equivalent to Recessed LED Light 3 x 36W</u>			
A	Supply	No	30	
B	Install	No	30	
	<u>Type B - Equal or equivalent to LED Beka Bulkhead</u>			
C	Supply	No	30	
D	Install	No	30	
	<u>Type C - Equal or equivalent to LED Light Vapour Proof 2 x 58W</u>			
E	Supply	No	45	
F	Install	No	45	
	<u>Type D - Equal or equivalent to Compact LED Downlighter 2 x 18W</u>			
G	Supply	No	105	
H	Install	No	105	
	<u>Type E - Equal or equivalent to Surface LED light 2 x 36W</u>			
J	Supply	No	1	
K	Install	No	1	
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	Bill No. 5			
	PART 2: SCHEDULE D: LIGHT FITTINGS			
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<u>Type F - Equal or equivalent to Recessed LED light 3 x 18W</u>					
A	Supply	No	1		
B	Install	No	1		
<u>Type G - Equal or equivalent to Surface Equal or equivalent to light 3 x 36W</u>					
C	Supply	No	1		
D	Install	No	1		
<u>Type H - Equal or equivalent to Led Down Lighter</u>					
E	Supply	No	40		
F	Install	No	40		
<u>Type I - Equal or equivalent to LED Cove Lighting</u>					
G	Supply	No	50		
H	Install	No	50		
J	Supply	m	50		
K	Install	m	50		
<u>Type J - Equal or equivalent to Recessed LED light 2 x 54W</u>					
L	Supply	No	5		
M	Install	No	5		
<u>Type K - Equal or equivalent to LED Explosion proof 2 X 58 W</u>					
N	Supply	No	2		
P	Install	No	2		
<u>Type L - Equal or equivalent to LED Fire proof 2 X 58 W</u>					
Q	Supply	No	10		
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A	Install	No	10		
	<u>Type M - Equal or equivalent to Flood Light</u>				
B	Supply	No	6		
C	Install	No	6		
	<u>Type N - Equal or equivalent to LED Light Recessed 1 x 54W</u>				
D	Supply	No	3		
E	Install	No	3		
	<u>Type P - Equal or equivalent to LED Highbay 400W</u>				
F	Supply	No	1		
G	Install	No	1		
	<u>Type AE - Same as type A but one hour maintained battery backup</u>				
H	Supply	No	1		
J	Install	No	1		
	<u>Type CE - Same as type C but one hour maintained battery backup</u>				
K	Supply	No	1		
L	Install	No	1		
	<u>Type DE - Same as type D but one hour maintained battery backup</u>				
M	Supply	No	30		
N	Install	No	30		
	<u>Type GE - Same as type G but one hour maintained battery backup</u>				
P	Supply	No	1		
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Bill No. 5
PART 2: SCHEDULE D: LIGHT FITTINGS
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
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A	Install	No	1		
	<u>Type JE - Same as type J but one hour maintained battery backup</u>				
B	Supply	No	1		
C	Install	No	1		
	<u>Type OE - Same as type O but one hour maintained battery backup</u>				
D	Supply	No	5		
E	Install	No	5		
	<u>5A socket outlet complete with plug & 3m cabtyre</u>				
F	Supply	No	500		
G	Install	No	500		
	<u>Type P - Equal or equivalent to LED Streetlight 70W HPS complete with 5,2m Pole</u>				
H	Supply	No	3		
J	Install	No	3		
K	Provision for removal and desposal of any light fittings and accessories found on site				SUM
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 6</u>			
	<u>LIGHT SWITCHES</u>			
	<u>Supply and install light switches complete with cover plates connecting to wiring and fitted in switch box (drawboxes). Switches to be equal or similar to Crabtree Classic range</u>			
	<u>16A one lever one way</u>			
	<u>BILL NO. 5</u>			
A	Supply	No	22	
B	Install	No	22	
	<u>16A one lever two way</u>			
C	Supply	No	4	
D	Install	No	4	
	<u>16A one lever one way IP 65 rated</u>			
E	Supply	No	5	
F	Install	No	5	
	<u>16A daylight switch</u>			
G	Supply	No	2	
H	Install	No	2	
	<u>Occupancy sensor See section B4.2 of the specification</u>			
J	Supply	No	15	
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	Bill No. 6 PART 2: SCHEDULE E: LIGHT SWITCHES 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

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PART 2: SCHEDULE E: LIGHT SWITCHES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 7</u>			
	<u>POWER POINT OUTLETS</u>			
	<u>Supply and install switched socket outlets complete with cover plates connecting to wiring and fitted in boxes or power skirting to be of type Crabtree Classic Range or similar.</u>			
	<u>16A 3-pin double switched socket outlets</u>			
A	Supply	No	15	
B	Install	No	15	
	<u>16A 3-pin single switched socket outlets</u>			
C	Supply	No	4	
D	Install	No	4	
	<u>16A 3-pin single dedicated switched socket outlets</u>			
E	Supply	No	2	
F	Install	No	2	
	<u>16A 3-pin single switched socket outlet to fit power skirting</u>			
G	Supply	No	28	
H	Install	No	28	
	<u>16A 3-pin single dedicated switched socket outlet to fit power skirting</u>			
J	Supply	No	28	
K	Install	No	28	
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	PART 2: SCHEDULE F: POWER POINT OUTLETS			
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<u>Data outlet to fit powerskirting</u>			
A	Supply	No	25
B	Install	No	25
<u>Cabstrut Universal modular outlet desk pop-up unit or similar and approved complete with 2 x power, 2 x data and 2 x telecommunication points</u>			
C	Supply	No	3
D	Install	No	3
<u>16A 3-pin double switched socket outlet IP65</u>			
E	Supply	No	43
F	Install	No	43
<u>32A 3-pin double switched socket outlet IP65</u>			
G	Supply	No	13
H	Install	No	13
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 8</u>			
	<u>ISOLATORS</u>			
	<u>Supply and install isolator</u>			
	<u>32A three pole</u>			
A	Supply	No	5	
B	Install	No	5	
	<u>60A three pole IP65</u>			
C	Supply	No	2	
D	Install	No	2	
	<u>20A double pole</u>			
E	Supply	No	10	
F	Install	No	10	
	<u>32A double pole IP65</u>			
G	Supply	No	3	
H	Install	No	3	
	<u>32A 5-pin welding socket outlet complete with lockable handle IP65 rated</u>			
J	Supply	No	2	
K	Install	No	2	
L	Supply	No	2	
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PART 2: SCHEDULE G: ISOLATORS

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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 9</u>			
	<u>CCTV System as per section 22 of Specification</u>			
	<u>Head-End & Recording Equipment</u>			
A	HD NVR 15TB Storage 2U - (Product code 15TB-HD-NVR)	No	1	
B	Switch Gigabit 28-Port (Cisco) 24-Port POE SFP - (Product code S28)	No	1	
C	Switch Gigabit POE Max 10-Port (Cisco) 8-Port POE 2-Fibre Ports - (Product code S8)	No	3	
D	8-Channel Network Video Management Software - (Product code 8C-HD-NVMS-ENT)	No	3	
E	Remote Monitoring Work Station - (Product code 2MN-HD-RMWS)	No	2	
F	19" Cabinet to house rack mounted equipment - (Product code Code not applicable)	No	2	
G	40-Inch LED LCD High Definition Monitors - (Product code LCD40WLED)	No	1	
H	23-Inch LED LCD High Definition Monitors - (Product code LCD23WLED)	No	2	
J	Wall mount bracket, for LCD 40-Inch monitor - (Product code TVARMP)	No	1	
K	SFP-PORT 1000BASE-LX MINI-GBIC MODULE - 10KM-SM - (Product code SFP1000LX-10KM)	No	4	
	<u>Cameras</u>			
L	5.0 Mega pixel, HD, Day/Night IP Box Camera - (Product code 5MP-HD-DN)	No	18	
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	PART 2: SCHEDULE H: CCTV			
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A	2.4-6mm Tamron Mega Pixel Lens - (Product code LC3810TA)	No	18		
B	Housing GL617FS - (Product code GL-617F)	No	18		
C	Wall-mount Bracket ES-OPT-WALL-SL - (Product code ES-OPT-WALL-SL)	No	18		
D	Camera pole mounting bracket - (Product code GEA-106)	No	18		
	<u>Cable</u>				
E	24 fibre heavy duty single mode duct cable per metre	m	300		
F	CAT6 network cable per 100 metre roll	No	30		
G	Surfix 2,5mm ² twin + earth per metre	m	100		
	<u>Power & Electrical</u>				
H	Hagar Distribution Box	No	2		
J	15A circuit breaker	No	5		
K	4x4 duo switched socket outlet with box and cover plate	No	2		
L	Electrical Work Compliance Certificate	No	1		
	<u>Fibre Equipment</u>				
M	Splicing cost per 24 fibres	No	1		
N	Splicing Casette	No	4		
P	Splicing Trays - 19" rack mount	No	1		
Q	LC/APC 3m Single Mode Fibre Optic pigtails	No	4		
R	Brush Panels - 19" rack mount	No	4		
	<u>Trunking & Conduit</u>				
S	PVC Trunking 25mm x 16mm per length	No	50		
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**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
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A	PVC Trunking 60mm x 60mm per length	No	50		
	<u>Sundries</u>				
B	Extractor fan for 19" rack	No	1		
C	CAT6 Connectors	No	50		
D	25mm Kopex Male gland	No	45		
E	25mm Kopex flexible conduit	m	45		
F	Bandit stainless steel strapping & buckle	No	6		
G	Cable ties 388mm	No	250		
H	Galvanised screws (M5x25)	No	80		
J	Nail-In Anchors (7x35)	No	20		
K	Screws coach	No	20		
L	Wall plugs	No	20		
	<u>Labour</u>				
M	Labour costs for installation				SUM
N	System Engineering				SUM
P	Project Management				SUM
	<u>General</u>				
Q	Include all other additional cabling, power supplies, pc's, licences, cabinets etc to complete the CCTV project.				SUM
R	Prior to approval & installation of the system the CCTV system must be fully demonstrated on site. The Contractor must prove compliance to specification under conditions that will be experienced during normal operation. Night & day.				SUM
S	Gigabyte S1082 tablet	No	1		
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A Remove, keep safe, clean and hand over to the Client
the remainder of the existing cctv equipment. (DVR's,
screens, redundant cameras etc.)

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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 10</u>			
	<u>Access Control equipment for security entrances as per Part II section 18 of Project Specification - ANNEXURE B</u>			
	<u>iCLASS R40 READ ONLY - 6120CKN0000L Reader</u>			
A	Supply	No	5	
B	Install	No	5	
	<u>Door status readers. Recessed mounted contact. Flanged housing.</u>			
C	Supply	No	5	
D	Install	No	5	
	<u>Electronic buzzer. (to sound when door left open too long)</u>			
E	Supply	No	5	
F	Install	No	5	
	<u>Green Break Glass including back box.</u>			
G	Supply	No	5	
H	Install	No	5	
	<u>CISA mortice lock with swingbolt complete with electronic gear</u>			
J	Supply	No	5	
K	Install	No	5	
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	PART 2: SCHEDULE I: ACCESS CONTROL & INTRUDER ALARM			
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	<u>Stainless Steel Request to exit button.</u>				
A	Supply	No	5		
B	Install	No	5		
	<u>SENTRY 433MHz WIEGAND receiver</u>				
C	Supply	No	2		
D	Install	No	2		
	<u>FOUR BUTTON WIEGAND (26/30bit) PROTOCOL TRANSMITTER</u>				
E	Supply	No	50		
F	Install	No	50		
	<u>Single Reader Interface Module, 12/24 VDC, 2 Form-C relays - LNL-1300</u>				
G	Supply	No	5		
H	Install	No	5		
	<u>Intelligent Dual Reader Controller - 12/24 VDC @700mA - LNL-2220</u>				
J	Supply	No	1		
K	Install	No	1		
	<u>Power Supply and Battery for Reader controllers</u>				
L	Supply	No	5		
M	Install	No	5		
	<u>CISA - Fast Touch - Panic Exit Device</u>				
N	Supply	No	4		
P	Install	No	4		
	Carried to Abstract				
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<u>CISA Electric Strike for Fast Touch devices</u>					
A	Supply	No	4		
B	Install	No	4		
<u>Client PC</u>					
C	Supply	No	1		
D	Install	No	1		
E	TCP/IP Network. Complete stand alone network to cater for all access control equipment. Including switches etc required.				SUM
F	Include all cabling, power supplies, licences, cabinets etc to complete the access control system.				SUM
<u>Intruder alarm</u>					
<u>12meter volumetric dual Motion sensor.</u>					
G	Supply	No	15		
H	Install	No	15		
<u>Area keypads. 2x16 character lcd display. - ATS1100</u>					
J	Supply	No	2		
K	Install	No	2		
<u>Industrial surface mount contact for roller shutters. Biased.</u>					
L	Supply	No	8		
M	Install	No	8		
<u>Outdoor Siren with red LED beacon. - AS500</u>					
N	Supply	No	1		
P	Install	No	1		
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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 11</u>			
	<u>IT as per section 21 of Specification</u>			
	<u>Network Equipment</u>			
A	B5G124-48P2 Enterasys B5 with 48 x 10/100/1000 RJ45 PoE, 4 x Combo SFP	No	1	
B	MGBIC-LC01 Enterasys MGBIC-LC01 Multimode fiber with LC connector (up to 450 metres)	No	2	
C	MGBIC-LC09 Enterasys MGBIC-LC09 Singlemode fiber with LC connector (up to 10 kilometres)	No	2	
D	B3G124-48P Enterasys SecureStack B3 48 10/100/1000 Power-over-Ethernet ports	No	4	
E	RBT-4102-EU Enterasys RoamAbout AP 4102 for Europe	No	2	
	<u>INFRASTRUCTURE</u>			
	<u>Schedule A : Krone highway and highwire copper products</u>			
	<u>COPPER 10 Floor Cabling - ADC KRONE</u>			
F	CABLE CAT6a LSZH UTP (10G-A6TZ1-BLM2) - (Part Number - 6499 1 16200)	m	3,000	
G	PATCH PANEL COPPER10 NEW VERSION - (Part Number - 6527 1 74300)	No	5	
H	COPPER10 CAT 6 Patch Cord (2m 7ft) 568A - (Part Number - 6645 2 82007)	No	20	
J	COPPER10 CAT 6 Patch Cord (3m 10ft) 568A - (Part Number - 6645 2 82010)	No	15	
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A	COPPER10 CAT 6 Patch Cord (5m 15ft) 568A - (Part Number - 6645 2 82015)	No	7		
B	OUTLET C6 UTP SMK1 Cu10 IVORY - (Part Number - 7080 1 06210)	No	25		
	<u>COPPER 10 BB Cabling from the MDF to the IDF cabinets - ADC KRONE</u>				
C	CABLE CAT6a LSZH UTP (10G-A6TZ1-BLM2) - (Part Number - 6499 1 16200)	m	80		
D	PATCH PANEL COPPER10 NEW VERSION - (Part Number - 6527 1 74300)	No	5		
E	COPPER10 CAT 6 Patch Cord (2m 7ft) 568A - (Part Number - 6645 2 82007)	No	10		
	<u>COPPER 10 BB Cabling from the MDF to the Server cabinets - ADC KRONE</u>				
F	CABLE CAT6a LSZH UTP (10G-A6TZ1-BLM2) - (Part Number - 6499 1 16200)	m	100		
G	PATCH PANEL COPPER10 NEW VERSION - (Part Number - 6527 1 74300)	No	2		
H	COPPER10 CAT 6 Patch Cord (2m 7ft) 568A - (Part Number - 6645 2 82007)	No	30		
	<u>Schedule B : Krone Fibre product - ADC KRONE</u>				
J	Fibre Panel Empty with three blanks - (Part Number - 7033 1 000-00)	No	2		
K	Fibre module ST 6 port simplex MM - (Part Number - 7033 1 094-01)	No	2		
L	Fibre module ST 6 port simplex SM - (Part Number - 7033 1 094-02)	No	2		
M	Fibre module LC 6 port duplex MM - (Part Number - 7033 1 095-01)	No	1		
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A	Fibre module LC 6 port duplex SM - (Part Number - 7033 1 095-02)	No	1		
<u>Schedule B : Krone Fibre product - FibreWorx</u>					
B	FibreWorx HDD Corrugated Steel Tape Armoured (CST) (10/125) Loose Tube / 16.9mm / PE Sheath 12 Fibre - (Part Number - OF942)	m	180		
C	FibreWorx Heavy Duty Duct CST (50/125) Loose Tube / 13.7mm / PE Sheath 12 Fibre - (Part Number - OF937)	m	150		
<u>Schedule B : Krone Fibre product - NETCON</u>					
D	Pigtail Unjacketed LC Multimode 1m - (Part Number - 3425PTUW01A001M)	No	6		
E	Pigtail Unjacketed LC Single Mode 1m - (Part Number - 3428PTUW01C001M)	No	6		
F	ST - MULTIMODE 1m ST UNJACKETED PIGTAIL - (Part Number - 3417PTUW01A001M)	No	6		
G	ST - SINGLEMODE 1m ST UNJACKETED PIGTAIL - (Part Number - 3408PTUW01C001M)	No	6		
H	LC - Single Mode 3m ST- LC DUPLEX PATCHCORD - (Part Number - 250828DJ02C003M)	No	12		
J	LC - Multimode 3m ST-LC DUPLEX PATCHCORD - (Part Number - 351725DO02A001M)	No	12		
<u>OTHER - NETCON</u>					
K	ENTRY GLAND 13.5mm GREY - (Part Number - 23003PG13.5GRY)	No	6		
L	TERMINATION BOX - LARGE - (Part Number - 22003L3902)	No	6		
M	Heatshrink Splice protector - (Part Number - 72SPHSHRNK)	No	18		
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A	Lint Free Kimberley Wipes Box - (Part Number - 2101F34-155-12)	No	5	
B	Isopropyle Alchohol Aerosol can - (Part Number - 2101F1-0007F)	No	5	
C	Fibre Warning Tag - (Part Number - 26FTAG)	No	5	
<u>Schedule C : Cable Routing</u>				
<u>General consumables - NETCONNECT</u>				
D	T18RBK Cable Tie - (Part Number - 29T18RBK)	No	20	
E	Velcro Wrap Strap(p/m) - (Part Number - 29TWRAPSTRAP)	No	10	
F	Insulation Tape White - (Part Number - 29INSTAPE-WH)	No	5	
G	Masking Tape - (Part Number - 29IMASK)	No	2	
H	Brother Label Cartridge 9mm BK/WH - (Part Number - 26PTZ221)	No	2	
J	9,4mm Heatshrink Clear - (Part Number - 2694HS-CL)	No	10	
<u>Schedule D : Modrack data network cabinets</u>				
<u>43U Floor Standing Cabinets - MODRAC</u>				
K	600 X 1000 Modrac - (Part Number - MOD-43U/6X1N)	No	2	
L	PANEL MOUNT 43 U - (Part Number - ZPM43)	No	2	
M	Cable Tray, 43U, 304mm wide - (Part Number - MOAC-43U304CT)	No	2	
N	10 Way SA standard PDU with 3 meters 1.5mm cabtyre hard wired - (Part Number - MOAC-10WPD/HW)	No	2	
P	650mm Deep Flat Shelf, upto 100kg - (Part Number - MOAC-650FS/100)	No	6	
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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 12</u>			
	<u>VOIP System</u>			
	<u>CISCO 8 Line IP Phone with display, PoE and PC Port. SPA508G</u>			
A	Supply	No	22	
B	Install	No	22	
C	Complete system installation, testing & commissioning			SUM
D	Operation & Maintenance Manual including Client Training and tuition			SUM
	<u>Telephone System - Install new PABX and Switch</u>			
E	Install new PABX and switch	No	1	
	<u>Cabling from distribution point to each subdistribution point 20 pair APLSWA 0.63mm²</u>			
F	Supply	m	300	
G	Install	m	300	
	<u>Internal cabling from from termination strip to telephone 2 pair 0.5mm²</u>			
H	Supply	m	500	
J	Install	m	500	
	<u>Krone Termination block</u>			
K	Supply	No	4	
L	Install	No	4	
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PART 2: SCHEDULE K: VOICE OVER IP PHONE SYSTEM

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PROVISIONAL BILLS OF QUANTITIES

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	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 13</u>			
	<u>FIRE ALARM - See Section 19 of the Spec</u>			
	<u>Addressable 4 loop fire control panel c/w interface, network and relay cards including power supply and standby batteries in the event of a power outage</u>			
A	Supply	No	2	
B	Install	No	2	
	<u>Optical smoke detector with base (surface mounted)</u>			
C	Supply	No	40	
D	Install	No	40	
	<u>Rate of rise detector with base (heat detector)</u>			
E	Supply	No	18	
F	Install	No	18	
	<u>Ceiling mounted flashing beacon (red) & sounder</u>			
G	Supply	No	7	
H	Install	No	7	
	<u>Manual break glass unit</u>			
J	Supply	No	8	
K	Install	No	8	
	<u>Line interface units</u>			
L	Supply	No	4	
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	PART 2: SCHEDULE L: FIRE ALARM & PA			
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Audio equipment for conference area to be TOA or similar approved. See section B5.5 of the specification. Equipment to consist of:

A	1. Wide-Dispersion Cabinet Speaker System 30W 100V. Code F-1300BT	No	4		
B	2. 120w Mixer Amplifier 50-15 kHz (no muting of BGM) Code A-1712ER	No	1		
C	3. Rack & Accessories	No	1		
D	4. Include cabling, installation & commissioning to deliver a complete system				SUM
E	Provision for removal and desposal of any fire detection devices and accessories on site				SUM

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PART 2: SCHEDULE L: FIRE ALARM & PA
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2B</u>			
	<u>BILL NO. 14</u>			
	<u>EXTRA SERVICES</u>			
A	Trace, identify and label all existing circuits and distribution boards that will not be affected by the renovations or additions. Label all sockets, isolators, switches and boxes according to the section B1.30 of the specification. Update legend cards where applicable and provide "as built" drawings.			SUM
B	Labelling of all new sockets, isolators, switches and boxes as per section B1.30 of the specification			SUM
C	Strip & remove all redundant electrical equipment. Make safe, temporary label, reroute circuits including all works associated with the scope of works.			SUM
D	Supply and install handdryers to following specification: 1. Hand dryer air rate: 30 litres/second 2. 15 second drying time 3. Swivelling nozzle 4. Stainless steel casing 5. SABS approved	No	8	
E	Supply and install industrial high pressure cold water cleaner at wash bay. 1. Flow rate: 380l/hr min 2. Operating pressure: 30-160bar 3. Maximum pressure: 190bar 4. Equal or similar approved to Karcher HD6/16-4 ST 5. Complete with pipes, lance and connections			SUM
F	Supply and install industrial vacuum cleaner at wash bay. 1. Airflow: 350 m3/h 2. Water lift: 2200 mm H2o 3. Tank capacity: 35l 4. Equal or similar approved to VORTEX 4HP Induction vacuum 5. Complete with 10m HP hose			SUM
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<u>1800 x 1200mm electrically operated viewing screen. Complete with push button control mounted at 1400mm AFFL.</u>					
A	Supply	No	1		
B	Install	No	1		
<u>Video entry phone system between doors and reception on ground floor complete with link to access control for door release. Equal and approved to Aiphone KC-1MRD system</u>					
C	Supply	No	1		
D	Install	No	1		
E	Supply and install an overhead video projector complying to the following specifications complete with HDMI cable down to floorbox: 1. 3000 ANSI lumens 2. 1600:1 contrast 3. XGA 1024 x 768 4. DLP 5. lens ratio 1.8 - 2.16 6. Eco lamp model	No	1		
<u>30 Kva UPS, 3 phase as per Section B2.9 & Annexure B. Run time of 12min at full load with 10 year life batteries</u>					
F	Supply	No	1		
G	Install	No	1		
<u>Removal of existing services installed on the premises</u>					
H	Supply	No	1		
J	Install	No	1		
<u>Entrance Booms</u>					
K	Supply	No	2		
L	Install	No	2		
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Reinstatement of pavers at the entrance

A Supply

m²

50

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3	PART 2: SCHEDULE B: CABLES, WIRING AND EARTH WIRE	542	
4	PART 2: SCHEDULE C: CONDUITS AND ACCESSORIES	546	
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2C</u>			
	<u>BILL NO. 1</u>			
	<u>Part 1: AIRCONDITIONING, FANS AND DUCTING</u>			
	<u>MECHANICAL WORKS</u>			
	<u>NOTE:</u>			
	i) Quantities in this schedule are to be re-measurable on completion. Rates are fixed in accordance with the tendered rates.			
	ii) This Bill of Quantities is to be read in conjunction with the specification in respect of the following listed items.			
	iii) Majority of the mechanical equipment is existing. Condition to be assessed on site to determine if it should be replaced or can be retained.			
	<u>AIR CONDITIONING</u>			
	<u>Removal of Existing AC Units</u>			
A	VRF System, 1 outdoor unit and 12 indoor units, including all pipework.			SUM
B	Split System, 2 outdoor units and 2 indoor units, including all pipework			SUM
	<u>Replacement VRF Units</u>			
	Supply and install 3-pipe/Heat Recovery VRV Systems, complete with all necessary piping, insulation, trunking, wiring, electrical work, hard wired controls, etc. necessary to leave the installation in good working order. All fittings and fixings are to be included as specified.			
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Indoor Units connected to ODU1

Indoor units, complete with connections to VRF Outdoor units, refrigerant piping, control cabling and connections to flush mounted hardwired controllers (measured elsewhere) and drip trays piped to drain.

Maximum noise level of indoor units: NC 40 (45 dBA)
Controls: The controls for the units are to be installed in flush mounted control panels.

A	3.6kW Cooling Capacity and 4.0kW Heating Capacity - 4way Cassette	No	2
B	4.5kW Cooling Capacity and 5.0kW Heating Capacity - 4way Cassette	No	6
C	5.6kW Cooling Capacity and 6.3kW Heating Capacity - 4way Cassette	No	3
D	4.5kW Cooling Capacity and 5.0kW Heating Capacity - 360 Cassette	No	1
E	360 Cassette decoration panel	No	1
F	4way Cassette decoration panel	No	11
<u>Controllers</u>			
G	Flush mounted wired controllers, suited to the indoor unit above, installed in conduits chased into walls by others.	No	12

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Outdoor Units

Outdoor units are to be mounted on rubber "waffle pads" on slabs as shown in the drawings.

Approximate sizes are given for VRF units for the different floors, however a design must be carried out using the manufacturer's propriety design software for the actual outdoor unit sizes to match the indoor units as shown on the drawings.

Outdoor units are to be raised sufficiently to ensure that they are not damaged by pooling water.

Outdoor units are to be treated with corrosion protection coating, as per Bluechem, or other approved. For coastal areas.

Outdoor units are to be supplied with hail guards manufactured from expanded metal to protect condensing coils. Hail guards to be hot dipped galvanised or stainless steel.

Outdoor unit with approximately 55.5kW Cooling capacity to service 12 indoor units. (ODU1)

A	Supply and Install	No	1	
B	Outdoor Unit Bluchem Treatment	No	1	
C	Galvanised Outdoor Unit Cage to Match Existing	No	1	

Branch Selectors

All necessary branch selector boxes for the connection between VRF outdoor units to the VRF indoor units to suit system provided. Quantity and location of Branch Selector's are to be verified by using the manufacturer's propriety design software. As specified. Supply and Install

D	VRF Branch Selectors	No	2	
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<u>Refrigerant Piping</u>				
All necessary refrigerant piping to connect the VRF outdoor units to the VRF indoor units including all fittings, fixings, refnet joints, Y-branch pipes and other accessories. Sizing and quantity of piping and associated connection are to be verified by using the manufacturer's propriety design software. Piping is to be copper, installed on cabletrays with insulation as required by the manufacturer. As specified. Supply and Install				
A	VRF refrigerant piping	No	1	
<u>Condensate Drain Piping</u>				
Condensate drain piping to be formed with blue PVC piping and insulated with 25mm insulation up to a distance of 1m from the unit discharging into the drain piping.				
B	25mm PVC(blue) Condensate Piping. Installed with supports (at 1m spacing) and glued fittings.	m	40	
C	50mm PVC(blue) Condensate Piping. Installed with supports (at 1m spacing) and glued fittings.	m	40	
Trunking				
D	300mm Galvanised Wire Mesh Cable Tray	m	50	
<u>Replacement Split Units</u>				
<u>DX - Split Units</u>				
Supply and install inverter-type split air conditioning units with reverse cycle heating, complete with all necessary piping, insulation, trunking, wiring, electrical work, flush mounted hard wired controls, drains, mounting brackets, rubber waffle pads, etc. necessary to leave the installation in good working order, as follows: Note: The supply and installation of the wired remote control must be included in the cost				
E	3.5kW Cooling Capacity - 4way Cassette	No	1	
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A	3.5kW Cooling Capacity - Midwall	No	2		
B	Outdoor Unit Bluchem Treatment	No	3		
C	Outdoor Unit Cage	No	3		
	<u>Server Room Unit</u>				
D	Stainless steel condensate drain pan for two midwall airconditioning units, approximately 1200mm x 350mm (measured to suit site conditions) with a depth of 50mm, to include all necessary mounting, installation, and drain outlets.	No	1		
E	Automatic changeover controller with timer and alarm function to indicate faults, including all necessary adapters.	No	1		
	<u>VRF COMMISSIONING (Including all reports)</u>				
	Commissioning and acceptance of all VRF installation as per manufacturers recommendation including all reports.				
F	VRF Commissioning	No	1		
	<u>FANS AND DUCTING</u>				
	<u>FANS (Supply and Install, including anti vibration mountings, canvas collors and brackets)</u>				
	In-line Supply Air Fans, installed with electrical connections to the the electrical point provided by others. Control of fans is as specified on the drawing				
G	AMS TD SILENT 160/100 or similar approved	No	1		
H	AMS TD SILENT 250/100 or similar approved	No	2		
J	AMS TD SILENT 800/200 or similar approved	No	1		
K	AMS TD SILENT 1000/200 or similar approved	No	2		
L	AMS TD SILENT 2000/315 or similar approved	No	1		
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A	AMS SILENT DESIGN 200 or similar approved	No	1		
	<u>Sound Attenuators (Supply and Install)</u>				
	Supply Air Attenuator to restrict sound pressure as specified, if required, including all connections to the ducting and supports				
B	Sound attenuator 315Ø - 600mmL	No	1		
C	Sound attenuator 200Ø - 600mmL	No	3		
	<u>WEATHER LOUVRES (Supply and install)</u>				
	Natural anodised aluminium weather louvres, complete with sub-frames and fixed to the wall.				
D	Weather Louvre 150x150	No	4		
E	Weather Louvre 350x350	No	1		
F	Weather Louvre 450x350	No	1		
G	Weather Louvre 425x400	No	1		
H	Weather Louvre 500x500	No	1		
J	Weather Louvre 600x500	No	3		
	<u>Filter Boxes complete with removable filters (Supply and Install)</u>				
	Side removable filter box including Primary Filters: G4: 50mm thick washable pleated filters with galvanised frames and 80% arrestance in accordance with EN779 and SANS 1424.				
K	Washable Panel Filter 150X150 and Plenum Box	No	1		
L	Washable Panel Filter 350X350 and Plenum Box	No	1		
M	Washable Panel Filter 450X350 and Plenum Box	No	1		
N	Washable Panel Filter 425X400 and Plenum Box	No	1		
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	<u>Door Grilles (Supply and Install)</u>				
	Double sided natural anodised aluminium door grille, drilled for countersunk fixing				
A	400x400 Door Grille	No	6		
	<u>DIFFUSERS(Supply and Install)</u>				
	Including necks, frames, supports, spigots connection on ductwork and flexible connections				
B	600x600 Ceiling Diffusers with Ø150 Neck (CCD1)	No	5		
C	600x600 Ceiling Diffusers with Ø150 Neck (CCD1)	No	6		
D	Supply Air Grille DD 300x200 Hole Size With OBD	No	3		
	<u>Disc Valves</u>				
	Disc Valves, galvanised steel, powder coated white, as specified:				
E	Disc Valve with Ø100 Neck	No	15		
	<u>Flexible Ducting (Un-insulated)</u>				
	Flexible ducting. Non-allergenic spiral wound a Not exceeding 1m in length, including all fittings, fixings, etc.				
F	Ø100 Flexible Ducting	m	10		
G	Ø150 Flexible Ducting	m	10		
H	Ø250 Flexible Ducting	m	10		
	<u>SPIRAL DUCTING (Supply and Install, including stiffeners, joining materials, sealants, couplers and access/inspection panels, brackets and hangers)</u>				
	Note: Where transformation or reducers occur the larger ductwork has been measured through the fitting Note: Take offs from the main duct run shall be deemed to include spigot connections				
	Carried to Abstract				R
	Bill No. 1 Part 1 AIRCONDITIONING, FANS A 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN

A	Ø100 Spiral Duct	m	10		
B	Ø150 Spiral Duct	m	10		
C	Ø180 Spiral Duct	m	10		
D	Ø200 Spiral Duct	m	10		
E	Ø380 Spiral Duct	m	10		
<u>RECTANGULAR DUCTING (Supply and Install, including stiffeners, joining materials, sealants, couplers and access/inspection panels, brackets and hangers)</u>					
Note: Where transformation or reducers occur the larger ductwork has been measured through the fitting					
Note: Take offs from the main duct run shall be deemed to include spigot connections					
F	100x100	m	10		
G	200x200	m	10		
H	225x225	m	10		
J	250x250	m	10		
K	270x270	m	10		
<u>Fire Dampers</u>					
L	Fire damper for 250mm diameter duct, installed with connections to the fire detection.	No	2		
<u>GENERAL</u>					
M	Testing, commissioning and handover of all equipment. Commissioning of VRF system allowed for above.				SUM
N	Issuing of an air conditioning Certificate of Conformity for the installation. Each conditioning unit is to have its own Certificate of Conformity	No	1		
Carried to Abstract					R
Bill No. 1 Part 1 AIRCONDITIONING, FANS A 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES					

**COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN**

A	O&M manuals, in separate lever arch files, for air conditioning and ventilation systems including all technical brochures, commissioning data, as-built drawings and staff training certificates, as specified.	No	3	
B	Staff training (maintenance and users) Signed certificates, as specified, to be provided.	No	1	
<u>Servicing and Guarantee</u>				
C	12 months guarantee on all equipment, as specified.			SUM
D	6 month inspection/clean/test/minor service of all equipment, as specified.			SUM
E	12 month inspection/clean/test/major service of all equipment, as specified.			SUM
Carried to Abstract				R

Bill No. 1
Part 1 AIRCONDITIONING, FANS A
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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Part 1 AIRCONDITIONING, FANS A

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Bill No. 1

Part 1 AIRCONDITIONING, FANS A

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2C</u>			
	<u>BILL NO. 2</u>			
	<u>Part 2: FIRE PROTECTION/INSTALLATION</u>			
	<u>FIRE INSTALLATION (Supply and Install)</u>			
	<u>Supply, fixing and bedding of non-return valves to SANS 644, complete with all nuts, bolts, gaskets, etc for pipe sizes as per detail drawings:</u>			
A	75 mm ø pipe			SUM
B	Pedestal type suction fire hydrant supply and fixing incl all fittings, concrete work and painting as per standard details			SUM
C	Non-return valve chamber as per detail			SUM
D	Fire hose reel (Compliant with SANS 543) complete with a wall-mounted bracket, hose guide, durable nozzle and 30m hose including pipework, isolation valve, union on pipework, breaking into existing pipework, draining and refilling, etc. Installed in accordance with SANS 543, SANS 1128 and SANS10105	No	2	
E	Fire Hose Reel Cabinet	No	1	
F	100mm Dial Glycerine Filled Pressure Guages0- 10 Bar, installed at every hose reel	No	2	
G	200x200mm photoluminescent signage a clear perspex sheet, with anodised aluminium supports, for fire equipment and escape routes, as per SANS 1186, screwed to wall/suspended from ceiling/mounted perpendicular to the wall.	No	27	
H	4.5kg Dry Chemical Powder Hand Held Fire Extinguishers as per SANS 1522 and SANS 1739. Mounted on a full length hardwood backing plate. Installed as per SANS 10105.	No	7	
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	Bill No. 2			
	Part 2 FIRE PROTECTION INSTALL			
	176Q/2023/24			
	PROVISIONAL BILLS OF QUANTITIES			

A	5kg CO2 Hand Held Fire Extinguishers as per SANS 1522 and SANS 1739. Mounted on a full length hardwood backing plate. Installed as per SANS 10105.	No	1		
B	Fire extinguisher Cabinet to Accommodate 2 Fire Extinguishers	No	1		
<u>WATER SUPPLIES TO FIRE EQUIPMENT</u>					
<u>Supply and install steel pipes, manufactured in accordance with SANS 62. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. Including all fittings, bends, elbows, and fixings. Piping to be painted Red upon completion.</u>					
C	25 mm Black Mild Steel Pipe Painted red	m	15		
D	32 mm Black Mild Steel Pipe Painted red	m	15		
<u>Servicing of Existing Equipment</u>					
E	Servicing of existing fire hose reels, according to SANS 10105, including replacement of any items which are found to need replacing during the service, i.e. 30m hose, nozzle, clamps, etc.	No	1		
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Bill No. 2 Part 2 FIRE PROTECTION INSTALL 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES					

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Part 2 FIRE PROTECTION INSTALL

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Bill No. 2

Part 2 FIRE PROTECTION INSTALL

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PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2C</u>			
	<u>BILL NO. 3</u>			
	<u>Part 3: PLUMBING AND DRAINAGE</u>			
	<u>DOMESTIC WATER RETICULATION</u>			
	PN16 PPR Pipe Reticulation Installed, fixed to walls, concrete soffits, etc. including all hangers, brackets & holder bats:			
	<u>20mm Pipe Reticulation</u>			
A	Cold Water Pipe	m	15	
B	Hot Water Pipe Insulated to R value 1	m	20	
	<u>25mm Pipe Reticulation</u>			
C	Cold Water Pipe	m	15	
D	Hot Water Pipe Insulated to R value 1	m	15	
	<u>32mm Pipe Reticulation</u>			
E	Cold Water Pipe	m	30	
F	Hot Water Pipe Insulated to R value 1	m	20	
	<u>Extra over for PPR fittings, including, tees, elbows, etc.</u>			
G	20mm fittings	No	20	
H	25mm fittings	No	20	
J	32mm fittings	No	15	
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	Bill No. 3 Part 3 PLUMBING AND DRAINAGE 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

<u>Isolating Valves</u>				
<u>Isolating valves, ball type with brass or gunmetal bodies, stainless steel ball and nylon seat, including adaptors to PPR piping:</u>				
A	20mm	No	10	
B	25mm	No	10	
C	32mm	No	10	
<u>Pressure Testing</u>				
D	Pressure Testing of Piping - all piping to be pressurised to 10 bar for a period of 30 minutes, including hiring of a mobile water pump suitable to pressurise the system.			SUM
<u>Copper Piping</u>				
Copper piping, class 2 as per SANS 460, fixed to walls, concrete soffits, etc. including all hangers, brackets & holder bats:				
E	22mm Pipe Insulated to R value 1	m	30	
<u>Extra over class 2 copper pipes for capillary fittings</u>				
F	22mm Fittings	No	15	
<u>Chasing</u>				
G	Chasing into walls. 50mm deep x 30mm wide. Replastering and making good.	m	50	
<u>DRAINAGE</u>				
<u>50mm Class 12 UPVC</u>				
H	90° Bend	No	10	
J	90° Access Bend	No	5	
K	45° Plain Bend	No	10	
L	45° Access Bend	No	5	
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Bill No. 3 Part 3 PLUMBING AND DRAINAGE 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

A	450 lit cylinder with 7.0 kW heat pump (COP>3:1 for 60°C water at 10°C ambient) system, including all interconnecting piping between heat pump and cylinder, valves, multipressure control valve, vacuum breakers, circulation pump, controller, etc. as specified. Note: approximate distance between heat pump and storage cylinder: 9m	No	1		
B	BluChem Treatment for Heat Pump	No	1		
C	External galvanised expanded metal Cages for Heat Pump	No	1		
D	200l Pressuride Emergency Tank with PRV and drip tray	No	3		
E	20mm Shut-off Valve	No	4		
F	25mm Shut-off Valve	No	6		
G	32mm Shut-off Valve	No	4		
H	32mm Preussre reducing valve complete with chamber	No	1		
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Part 3 PLUMBING AND DRAINAGE
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Part 3 PLUMBING AND DRAINAGE

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Bill No. 3

Part 3 PLUMBING AND DRAINAGE

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2C</u>			
	<u>BILL NO. 4</u>			
	<u>Part 4: LIFT INSTALLATION</u>			
	<u>GENERAL</u>			
A	Perform all required inspections and tests as required by the Occupational Health and Safety Act, No 85 of 1993, and as described in SABS1545 and SABS1543, including the issuing of the required Certificates	No	1	
B	Replace lift Traction Motor	No	1	
C	Replace lift rope	No	1	
D	Service lift doors	No	2	
E	Clean lift shaft and lift pit	No	1	
F	Replace guide rails	No	4	
G	Replace buffer stands	No	2	
H	Provide fire signal for lift to home under fire condition	No	1	
J	Install lift shaft lighting. 50 LUX to be measured throughout shaft.	No	1	
K	Install lift pit sump pump	No	1	
	<u>Core drilling of holes for pipes not exceeding 200mm diameter through reinforced concrete, including scanning for rebar with appropriate x-ray scanner where necessary.</u>			
L	Through slab, beam or wall exceeding 200mm and not exceeding 250mm thick.	No	2	
	Carried to Abstract			R
	Bill No. 4 Part 4 LIFT INSTALLATION 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

COMPLETION OF HOUT BAY ELECTRICAL DEPOT
ENERGY & CLIMATE CHANGE DIRECTORATE, CITY OF CAPE TOWN
ERF 9652, HARBOUR ROAD, HOUT BAY, CAPE TOWN

Servicing

- A 6 month inspection/clean/test/minor service of all equipment, as specified.
- B 12 month inspection/clean/test/major service of all equipment, as specified.

SUM

SUM

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Bill No. 4
Part 4 LIFT INSTALLATION
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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Part 4 LIFT INSTALLATION

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Part 4 LIFT INSTALLATION

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PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARY AND GENERAL</u>			
	<u>FIXED CHARGE ITEMS</u>			
A	Contractual requirements		SUM	
	<u>Establish facilities on site:</u>			
	<u>a) Facilities for the Engineers</u>			
B	i) Project nameboard	No	1	
	<u>b) Facilities for Contractor</u>			
C	i) Offices & storage sheds		SUM	
D	ii) Workshops, labs and living accommodation, ablution and latrine facilities		SUM	
E	iii) Tools, equipment, water supplies, electric power and communications		SUM	
F	iv) Dealing with water (subclause 5.5)		SUM	
G	v) Plant		SUM	
	<u>Other fixed charge obligations</u>			
H	Allow for all costs associated with complying with the stipulations of the OHS Specification / Act		SUM	
J	Allow for all costs associated with complying with the stipulations of the Environmental Specification		SUM	
K	Removal of site Establishments on completion		SUM	
	Carried to Abstract		R	
	Bill No. 1			
	1. Preliminaries & General			
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	PROVISIONAL BILLS OF QUANTITIES			

<u>TIME RELATED ITEMS</u>			
A	Contractual requirements	SUM	
<u>Operation and Maintenance of facilities on site:</u>			
<u>a) Facilities for Contractor</u>			
B	i) Offices & storage sheds	SUM	
C	ii) Workshops, labs and living accommodation, ablution and latrine facilities	SUM	
D	iii) Tools, equipment, water supplies, electric power and communications	SUM	
E	iv) Dealing with water (subclause 5.5)	SUM	
F	v) Plant	SUM	
G	Supervision for duration of Construction	SUM	
H	Company and Head office overhead costs	SUM	
J	Other time related obligations	SUM	
K	Allow for all costs associated with complying with the stipulations of the OHS Specification / Act	SUM	
L	Allow for all costs associated with complying with the stipulations of the Environmental Specification	SUM	
<u>LAND SURVEY ACT</u>			
M	Search for, record and protect trigonometrical survey beacons bench marks and plot boundary pegs and expose on completion of works	SUM	
<u>TEMPORARY WORKS</u>			
N	Dealing with traffic	SUM	
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Bill No. 1
1. Preliminaries & General
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

CONTROL TESTING

- A Provisional allowance for acceptance testing by the Engineer.
- B Attendance, charges etc. on item above

SUM

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Bill No. 1
1. Preliminaries & General
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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Bill No. 1

1. Preliminaries & General

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Bill No. 1

1. Preliminaries & General

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 2</u>			
	<u>SITE CLEARANCE</u>			
A	Clear and grub site	m ²	650	
B	Take up and remove existing Terraforce retaining wall blocks from site, including concrete foundation. Rate to include all costs related to transporting and dumping off site. (As directed by the Engineer)	m ²	10	
C	Take up and remove existing kerbs from site, including concrete haunching and bedding. Rate to include all costs related to transporting and dumping off site.	m	22	
D	Take up existing asphalt surfacing (30mm thick) and remove to approved dump site. Rate must include loading and all transport and dumping costs.	m ²	20	
E	Demolish and remove existing concrete structure to approved dump site. Rate must include loading and all transport and dumping costs.	m ³	5	
F	Take up existing paving surfacing (80mm thick) and remove to approved dump site. Rate must include loading and all transport and dumping costs.	m ²	120	
G	Apply general purpose non-selective systemic herbicide to paved areas as per manufacturer's instructions and remove any vegetation growing in these areas	m ²	1,800	
H	Apply general purpose non-selective systemic herbicide to landscape areas as per manufacturer's instructions and remove any vegetation growing in these areas	m ²	650	
	<u>SAW CUTTING SURFACES:</u>			
J	a) Cutting asphalt	m	30	
	Carried to Abstract			R
	Bill No. 2			
	2. Site Clearance			
	176Q/2023/24			
	PROVISIONAL BILLS OF QUANTITIES			

CLEANING PAVING

A a) Remove oil stains, silt, algae and paint from existing paving.

m²

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Bill No. 2
 2. Site Clearance
 176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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Bill No. 2

2. Site Clearance

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Bill No. 2

2. Site Clearance

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 3</u>			
	<u>FOUL SEWER</u>			
	<u>EARTHWORKS, PIPE TRENCHES</u>			
	<u>Excavation</u>			
	<u>a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material for pipes up to 450mm dia.:</u>			
A	i) 1,0m up to 1,5m (incl.)	m	30	
B	ii) Over 1,51m up to 2,0m (incl.)	m	15	
	<u>Excavation Ancillaries</u>			
	<u>a) Make up deficiency in backfill material: (Provisional)</u>			
C	i) Selected granular material by importation	m ³	12	
D	b) Compaction in road reserve	m ³	12	
	<u>Existing Services</u>			
E	a) Services that intersect a trench	No	3	
F	b) Services that adjoin a trench	m	35	
	<u>BEDDING</u>			
	<u>Provision of bedding material from commercial sources:</u>			
G	a) Selected granular material	m ³	12	
H	b) Selected fill material	m ³	6	
	<u>SEWERS</u>			
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	Bill No. 3			
	3. Foul Sewer			
	176Q/2023/24			
	PROVISIONAL BILLS OF QUANTITIES			

	<u>PIPES</u>				
	<u>Supply, lay, joint and bed, on Class C bedding, uPVC Class 34 Heavy Duty pipes:</u>				
A	i) 160 mm dia.	m	45		
	<u>MANHOLES</u>				
	<u>Supply and install 1,0m dia. Precast concrete ring manholes as per typical detail drawing for depth ranges over and up to:</u>				
B	i) 1.5m - 2,0m (incl.)	No	1		
	<u>Remedial work to 1,0m dia. Brick built manholes as per typical detail drawing:</u>				
C	i) Remove existing PVC splits, benching and redo as per detail drawing.	No	3		
D	ii) Inside of manhole to be bagged neatly and chimney finished of as per detail drawing.	No	6		
E	iii) Remove shutter board in top slab and make neat.	No	3		
F	iv) Install missing stepping irons as per detail drawing.	No	9		
G	v) Install benching as per detail drawing.	No	3		
H	vi) Install top slab with cover and frame as detail drawing.	No	1		
	<u>SEWER CLEANING AND TESTING</u>				
J	i) Clean existing foul sewer pipes up to 160mmØ and manholes and clear any blockages caused by sewer, roots or otherwise by means of high pressure jet cleaning.	m	150		
K	ii) CCTV camera inspection of all completed sewer main lines and cleaned sewer lines, footage on DVD with accompanying written report.	m	150		
L	III) Testing of pipe section in accordance with SANS 1200LD specifications.				
				SUM	
	Carried to Abstract			R	
	Bill No. 3 3. Foul Sewer 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES				

SUNDRIES

A Connect into existing municipal foul sewer main
 (manhole measured elsewhere)

No

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Bill No. 3
 3. Foul Sewer
 176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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3. Foul Sewer

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Bill No. 3

3. Foul Sewer

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 4</u>			
	<u>WATER SUPPLY</u>			
	<u>EXCAVATION</u>			
	<u>Excavate in all materials for trenches up to 1.0 m wide (incl.). Backfill and compact including disposal of unsuitable or excess material for depths up to 1.0 m.</u>			
	<u>b) Extra over item 4.1 for:</u>			
A	i) Intermediate material	m ³	2	
B	ii) Hard Rock	m ³	2	
	<u>Excavation Ancillaries</u>			
	<u>a) Make up deficiency in backfill material: (Provisional)</u>			
C	i) Selected granular material by importation	m ³	6	
D	b) Compaction in road reserve	m ³	6	
	<u>Existing Services</u>			
E	a) Services that intersect a trench	No	4	
	<u>BEDDING</u>			
	<u>Provision of bedding material from commercial sources:</u>			
F	a) Selected granular material	m ³	7	
G	b) Selected fill material	m ³	5	
	<u>MEDIUM PRESSURE PIPELINES</u>			
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	Bill No. 4			
	4. Water Supply			
	176Q/2023/24			
	PROVISIONAL BILLS OF QUANTITIES			

Supply, lay, joint, test and disinfect water mains of:

A	a) 40 mm Ø Class 12 HDPE pipes	m	15
B	b) 75 mm Ø Class 12 uPVC pipes	m	15

SPECIALS AND FITTINGS

Extra-over pipe items for supply, lay, jointing complete with couplings, bed, testing and disinfection of specials for Class 12 medium pressure pipes:

a) Class 12 Bends:

C	i) 40 mm Ø x 90° HDPE	No	1
D	ii) 40 mm Ø x 45° HDPE	No	1
E	iii) 75 mm Ø x 90° PVC	No	1

b) Tees for HDPE Class 12 pipes:

F	i) 40 mm Ø x 40 mm Ø HDPE	No	1
---	---------------------------	----	---

c) Reducers

G	i) 75 mm Ø PVC TO 40 mm Ø HDPE	No	1
---	--------------------------------	----	---

d) C.I. End caps for Class 12 pipes:

H	i) 40 mm Ø	No	3
---	------------	----	---

e) C.I. FH Tees for Class 12 pipes:

J	i) 75 mm ø	No	1
---	------------	----	---

FIRE HYDRANTS AND VALVE CHAMBERS

K	a) Pedestal type fire hydrant supply and fixing incl all fittings, concrete work and painting as per standard details.	No	1
L	b) Pedestals to be painted yellow as per detail drawing.	No	3
M	c) Valve chamber covers to be painted blue.	No	5

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Bill No. 4
4. Water Supply
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

A	d) Inside of valve chamber to be bagged neatly.	No	5	
B	e) Supply, fixing and bedding of non-return valves to SANS 644, complete with all nuts, bolts, gaskets, etc for pipe sizes 75mmØ including chamber, cover and frame as per standard detail:	No	1	
	<u>ANCILLARIES</u>			
	Anchor/Thrust blocks and pedestals as per standard details, using Class 20/19 concrete			
	<u>WATER LINE TESTING AND CLEANING</u>			
C	a) Clean, disinfection and testing of Class 12 domestic and fire water lines in accordance with SANS 1200L specifications.			SUM
D	b) Arrangement of inspection and approval of domestic and fire water meters and chambers by COCT water inspector.	No	2	
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Bill No. 4
4. Water Supply
176Q/2023/24
PROVISIONAL BILLS OF QUANTITIES

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4. Water Supply

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Bill No. 4

4. Water Supply

176Q/2023/24

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 5</u>			
	<u>STORMWATER DRAINAGE</u>			
	<u>MANHOLES</u>			
	<u>Remedial work to 1,0m dia. Brick built manholes as per typical detail drawing:</u>			
A	i) Inside of manhole to be bagged neatly and chimney finished of as per detail drawing.	No	6	
B	ii) Remove shutter board in top slab and make neat.	No	2	
C	iii) Install missing stepping irons as per detail drawing.	No	15	
D	iv) Install benching as per detail drawing.	No	5	
E	v) Install top slab with cover and frame as detail drawing.	No	2	
	<u>STORMWATER CLEANING</u>			
F	a) Clean existing stormwater pipes up to 450mmØ and manholes and clear any blockages caused by rocks, roots or otherwise by means of high pressure jet cleaning.	m	90	
	Carried Forward to Summary of Section No.			R
	Bill No. 5			
	5. Stormwater			
	176Q/2023/24			
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 6</u>			
	<u>ROADWORKS</u>			
	<u>EARTHWORKS, ROADWORKS</u>			
	<u>TREATMENT OF ROADBED</u>			
A	Roadbed preparation and compaction to 93% MOD AASHTO (100% for sand)	m ³	65	
	<u>SUBBASE</u>			
	<u>Supply and construct subbase and compact to 95 % MOD AASHTO:</u>			
B	a) 150 mm Thick G5 subbase	m ³	12	
	<u>BASECOURSE</u>			
	<u>Supply and construct subbase and compact to 98 % MOD AASHTO:</u>			
C	a) 150 mm Thick G4 base	m ³	12	
	<u>ASPHALT BASE AND SURFACING</u>			
	<u>PRIME COAT</u>			
	<u>Supply and apply prime coat using low viscosity Cationic Emulsion Prime (0.8 lit/m² nominal) on:</u>			
D	a) Roads	m ²	20	
	<u>ASPHALT SURFACING</u>			
	<u>Medium dense continuously graded asphalt surfacing:</u>			
E	a) 30 mm compacted thickness on roads	m ²	20	
	Carried to Abstract			R
	Bill No. 6 6. Roadworks 176Q/2023/24 PROVISIONAL BILLS OF QUANTITIES			

BRICK PAVING

Supply and lay concrete pavers on a 20 mm thick sand bedding layer complete.

A	a) 80mm thick gray interlocking (S-A) 30/2.0	m ²	90
B	b) 60mm thick CHARCOAL 30/2.0	m ²	20
C	c) Sections where header course was not grouted solid the sand is to be removed and grouted on both sides of header coarse with 1:3 cement:sand wet mix (mortar).	m	750

KERBS AND CHANNELS

Type BK1 barrier kerb & C1 channel

D	a) Straights	m	7
E	b) Curves with radii up to 20 m	m	7

Type BK1 barrier kerb only

F	a) Straights	m	7
G	b) Curves with radii up to 20 m	m	7

Type W1 channel only

H	a) Straights	m	10
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Type W4 channel only

J	a) Straights	m	5
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ANCILLARIES

K	Prov. sum to allow for parking demarcations in paving.		
L	Supply and lay new 19mm crushed grey stone chips 100mm thick.	m ³	65
M	Supply and place Geofabric Type A2 under stone chips.	m ²	650

SUM

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Section No. 4

Bill No. 6

6. Roadworks

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PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2D</u>			
	<u>BILL NO. 7</u>			
	<u>EARTHWORKS</u>			
	<u>BULK EARTHWORKS</u>			
	<u>Bulk excavation</u>			
A	Excavate in all materials on site to spoil to a site of the contractors choice, including transport, dispose and leveling of material.	m ³	65	
	<u>GABIONS AND PITCHING</u>			
B	Replace damaged 1m x 1m gabion lid using mesh Type 80 with 2.7/3.7mm, Class A galvanised and PVC coated wire, including tie wire:	m ²	12	
C	Access Geotextile protruding above ground to be cut off at NGL and disposed of site.	m ²	30	
	<u>RETAINING WALL</u>			
	<u>Supply and install strictly in accordance with the manufacturers specifications, segmental retaining walls with interlocking reversible Terraforce (Type L11) blocks or similar approved. All necessary work shall be carried out complete with material, labour and plant for the reinforced concrete in block walls and placing of geosynthetic as detailed by engineer.</u>			
D	a) 0m - 1m	m ²	6	
E	b) 0m - 2m	m ²	10	
	Carried Forward to Summary of Section No.			R
	Bill No. 7			
	7. Earthworks			
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SECTION SUMMARY - SECTION 02D - CIVIL WORK

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6	6. Roadworks	629	
7	7. Earthworks	630	
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2	SECTION 02B - ELECTRICAL WORK	588	
3	SECTION 02C - MECHANICAL WORK	610	
4	SECTION 02D - CIVIL WORK	631	
	SUB TOTAL		R
	Value Added Tax		R
	TOTAL CARRIED TO FORM OF TENDER		R
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