

BILL OF QUANTITIES - BUILDING WORK
PROJECT NAME: BUILDING 43D (2nd, 3rd floor) OFFICE UPGRADE
DEPARTMENT: FACILITIES DEPARTMENT - PROJECT SECTION

ITEM No. DESCRIPTION		LINUT	ОТУ	DATE	AMOUNT
ITEM No. DESCRIPTION		UNIT	QTY	RATE	AMOUNT
A PRELIMINARY AND GENERAL I	TEMS_				
	I including all health and safety requirements				
as per Occupational Health and S	afety Act 85 of 1993				
Site establishment		Sum	1.0		
2) Tools		Sum	1.0		
Allow for Certificate of compliance		Sum	1.0		
	ce for making good, cleaning up and rubble	Sum	1.0		
4) removal) PRELIMINARY AND GENERAL I	TEMS	Sum	1.0		
B <u>DEMOLITION AND ALTERATION</u>	<u>N</u>				
4)	41	2	75.0		
Remove existing carpets and cart	to spoil	m ² m ²	75.3 101.9		
Remove existing ceiling Strip existing lights and cart to spo	nil .	m no	101.9		
Remove existing service doors in		No	2.0		
5) Remove existing blinds		m ²	41.0		
Remove existing water closets		No	4.0		
Remove existing old urinal, screen		No	1.0		
8) Remove existing hand wash basin		No	3.0		
Remove existing airconditioning uses 10) Remove existing double skirting or 10. Remove existing double skirting or 10.	nit over and sockets (excluding cables)	No m	1.0 20.4		
11) Remove the existing buglar bar	2. 2. 3.14 Coolete (Choldeling Cables)	No	1.0		
12) Remove existing window sill tiles a	and make good	m ²	3.3		
	epare the floor to receive new tiles	m ²	51.9		
14) Demolish existing wall tiles on wal	Is and prepare the walls to receive new tiles	m ²	123.0		
 Remove existing double door at D 		No	1.0		
16) Remove existing single aluminium		No	1.0		
 17) Remove existing single door and f 18) Remove existing double aluminium 	rame and make good n door in the passage and make walls good	No No	1.0 1.0		
19) Demolish existing drywall	il door in the passage and make walls good	m ²	50.4		
19) Demoior existing dryman		'''	30.4		
C <u>BRICKWORK</u>					
Did of MED to the to the state of					
Brickwork of NFP bricks in class I to existing walls	I mortar, allow for reinforcement and bonding	m ²	41.1		
Cement plaster on brickwork		m²	82.2		
2) Comon placer on phonon			02.2		
D <u>DRYWALL</u>					
"Rhino-Drywall" partitions with 12	,5mm thick "RhinoBoard" board cladding on				
both sides boards are to be butt jo	pinted and finished with "Rhinotape" and				
	d all in accordance with the manufacturer's				
instructions					
	wall" mounted Finesse partitioning including				
aluminium trim and 76mm skirting		m ²	17.1		
C WINDOWS					
Repair the existing steel window h	andles and panes	Sum	1.0		
	nt by scraping and sanding. Carefully remove				
	ed window putty and re-apply new putty and				
 repaint (only interior side) 205,207 Cleaning interior glass panes with 		Sum Sum	1.0 1.0		
Allow for the replacement of broke	•	No	1.0		
	1				
E PAINTWORK					
	l loose materials, make good with Rhinolite,				
	Resistant Plaster Primer' (UC56), one coat Undercoat' (UC1), and two coats 'Plascon or				
	aint - (Colour - Pentone 172)				
	gh quality washable double velvet with sheen				
	e to plastered wall and complying with SANS				
1586 and 103055. Applied to Man Accent Walls	uractures specifications.	m ²	70.0		
1) Accent Walls		m ²	78.8		
Prepare surfaces and remove all	loose materials, make good with Rhinolite,				
	Resistant Plaster Primer' (UC56), one coat				
	dercoat' (UC1), and two coats 'Plascon or				
	aint - (Colour - Amazon mist)				
	In quality washable sheen finish paint suitable and complying with SANS 1586 and 103055.				
Applied to Manufactures specification					
2) Walls		m ²	209.3		
·					
	ose materials, sanddown and prepare wood				
Isurface with Dink 'Discon or Dul	lux Wood Primer' and two coats 'Plascon or	I	1		
	at with chaon finish Paint				
equivalent Washable Double Velv		No	4.0		
	Pentone 172	No No	4.0 16.0		

Service doors along the passage Paparse runfaces and renove loose materials, sanddown and prepars wood surface with Prike Plascon or Dutux Wood Priner and two causis Plascon or equivalent Washable Double Vehre Paint - Colour - Pentone 172 intentor, starfor to match existing doors along the passage) Bathroom extender doors Surfaces shall be thoroughly rubbed and deened down. Bistered or peeling paint shall be completely removed down to bare made and preparse surfaces with Prike Plascon or Dubus View and preparse surfaces with Prike Plascon or Dubus Primer and two costs Plascon or Dubus Washable Double Vehrel Paint - (Cobur - grey) Double Vehrel Paint - (Cobur - grey) Windows above the doors along the Saf floor passage Windows above the doors along the Saf floor passage Windows above the doors along the Saf floor passage Windows above the doors along the Saf floor passage Sum 1.0 Steed stricture to be doors along the Saf floor passage Sum 2.0 CELING Supply and instell Amstrong fine fissured 600x600mm stock code AFF12LI lay in gid celling system laid on double statiched solded lees at 600mm centes in to be finished using shadow line wat angles. Installation guide to be more than to be finished using shadow line wat angles. Installation guide to be more to manufacturer's specification BLINDS Sorron Basswood horizontal blinds in the colour white wark with manual controls titted indice review? I or frised Alward' fabric vertical blinds in the colour Kent Crey 11 with 90mm wide vanes, manual controls, left / right hand statishing head and bottom rails, blinds to be fitted inside review? I or frised Alward' fabric vertical blinds in the colour Kent Crey 11 with 90mm wide vanes, manual controls, left / right hand statishing head and bottom rails, blinds to be fitted inside review? Prof. Bloom. Color Fromes South over grey from the ward with doors, handles, complete all us per the Dawing. CARRENTRY Cupboards in offices Meanine foot cupboards in all offices and boardroom fitted below the windows against					
surface with Pink "Piescon or Dubus Wood Primer and two coals "Piescon or squivalent Washable Double Velvet Plant" (Colour -Pentroen 172 Interior, exterior to match existing doors along the passage) Surfaces shall be himoruphly rubbed and iclaimed doom. Bilastered or poeling paint shall be completely removed down to be metal Prepare surfaces and remove loose materials, sand-down and prepare surface with Pink" Piscon or Dubus Piner and two coals "Piescon or Dubus Velveter Piner" (Colour - grey) Dubble Velveter Piner" (Colour - grey) Windows above the doors along the 3rd floor passage Windows above the doors along the 3rd floor passage Supply and install Armstrong fine fissured 600x600mm stock code AFF12L lay in grid coling system laid on double sittlehed slotted tees at 600mm centres in codor white including notessary grids. Noting type and clips. Celling permeter in accordance to manufacturere's specification 6 BLINDS 50mm Basswood horizontal blinds in the colour white wash vitin manual controls littled inside reveal / or fixed face 7-aver" fairic vertical blinds in the colour white wash vitin manual controls littled inside reveal / or fixed face 8 Acareeman floor replaced in all offices and boardroom fitted below the windows against the wall with core; handles, exception and processary and supplied to be fitted inside reveal / or fixed face 9 Acareeman floor replaced in all offices and boardroom fitted below the windows against the wall with core; handles, complete at as per fite to Prawing, Careass; Inform Bloomboard miscond windows against the wall with core; handles, complete at as per fit by Drawing and practice of the prawing Careass; Inform Bloomboard miscond windows and practice of the prawing Careass; Inform Bloomboard miscond windows and practice of the prawing Careass; Inform Bloomboard miscond windows and practice of the prawing Careass; Inform Bloomboard practice of the prawing Careass; Inform Bloomboard Prawing Careass; Inform Bloomboard Prawing Careass; Inform Bloomboard Prawing Careass	6)	Service doors along the passage	No	2.0	
paint shall be completely removed down to bare metal Propare surfaces and remove lose materials, and-down and prepare surface with Pink Plascon or Dulux Primer and two coats Plascon or Dulux Washable Double Veder Parth - (Colur- grey) Seed sisting single door frames Sum 10 Steel distribution board cabinets F CELINO Supply and install Amstrong fine fissured 600x600mm stock code AFF12L lay in grid ceiling system laid on double stitched slotted fees at 600mm centres in color white including necessary grids. Locking year and clips. Ceiling perimeter to be finished using shadow line wall angles. Installation guide to be accordance to manufacturere's specification to be finished using shadow line wall angles. Installation guide to be accordance to manufacturere's specification to be finished using shadow line wall angles. Installation guide to be accordance to manufacturere's specification Somm Basswood horizontal blinds in the colour white wash with manual controls fitted inside reveal or fixed taxes, manual controls, lift right hand stacking head and bottom rails, blinds to be fitted inside reveal or fixed face Autowert' fabric vertical blinds in the colour Washing wash with manual controls, the fright hand stacking head and bottom rails, blinds to be fitted inside reveal or fixed face Autowert' fabric vertical blinds in the colour Washing wash with manual controls, the fright hand stacking head and bottom rails, blinds to be fitted inside reveal or fixed face Autowert' fabric vertical blinds in the colour Washing wash with manual controls, the fright hand stacking head and bottom rails, blinds to be fitted inside reveal or fixed face Autowert' fabric vertical blinds in the colour Washing wash with manual controls, the fright hand stacking head and bottom rails, blinds to be fitted inside reveal or fixed face Autowert' fabric vertical blinds in the colour Washing Cubbards in offices Melamine floor cupboards in all offices and boardroom fitted below the windows against the wall with double hands with th	7)	surface with Pink 'Plascon or Dulux Wood Primer' and two coats 'Plascon or equivalent Washable Double Velvet Paint - (Colour -Pentone 172 interior, exterior to match existing doors along the passage)		2.0	
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Seed distribution board cabinets	,		Sum		
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Somm Basswood horizontal blinds in the colour white wash with manual controls fitted inside reveal / or fixed 7 Aluvert" fabric vertical blinds in the colour Kent Grey 11 with 90mm wide vanes, manual controls, fet/ right hand stacking head and bottom rails, blinds to be fitted inside reveal / or fixed face 10 to be fitted inside reveal / or fixed face 11 CARPENTRY 12 Cubboards in offices Melamine floor cupboards in all offices and boardroom fitted below the windows against the wall with doors, handles, complete all as per the Drawing. Carcass: 16mm Bisonboard melawood Manufacturer: PG Bison, colour: Superwhite with matching edging. Kickplate: to be bisonboard aminated in four sided post form full wrap in formical aminate manufacturer: PG Bison, colour: Somm thick Bisonboard laminated in four sided post form full wrap in formical aminate manufacturer: PG Bison, Color: Formica storm/ dove grey Top: 30mm thick Bisonboard laminated in four sided post form full wrap in formical aminate manufacturer: PG Bison, Color: Formica storm/ dove grey Top: 30mm thick Bisonboard laminated in four sided post form full wrap in formical aminate manufacturer: PG Bison, Color: light grey 10 Cupboard size 2200mm long x 900mm s 500mm deep 11 Cupboard size 2200mm long x 900mm x 500mm deep 12 Service door size 2200mm long x 900mm x 500mm deep 13 Cupboard size 230mm long x 900mm x 500mm deep 14 Cupboard Size 2100 mm long x 900mm x 500mm deep 15 Cupboard size 2100 mm long x 900mm x 500mm deep 16 Cupboard size 2100 mm long x 900mm x 500mm deep 17 Cupboard size 2100 mm long x 900mm x 500mm deep 18 Cupboard size 2100 mm long x 900mm x 500mm deep 19 No 20 Withen cupboard Sink cupboard 1600mm x 850mm x 900mm high with 30mm thick *eezi quartz' white stone counter tops with 2 - 3mm bevel on surface edge, *PG Bison' 4mm Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 3 double hinged doors and necessary 8mm thick steel carcass framework epoxy power coated (sink elsewhere) 10 Wall / overhead cupboard W	.,			101.0	
"Aluvert" fabric vertical blinds in the colour Kent Grey 11 with 90mm wide vanes, manual controls, left / right hand stacking head and bottom rails, blinds to be litted inside reveal / or fixed face 12.5 Carpentry	G	50mm Basswood horizontal blinds in the colour white			
vanes, manual controls, leff. right hand stacking head and bottom rails, blinds to be fitted inside reveal / or fixed face H CARPENTRY Cubboards in offices Melamine floor cupboards in all offices and boardroom fitted below the windows against the wail with doors, handles, complete all as per the Drawing. Carcase: firmm Bisonboard melawood Manufacturer: PG Bison, colour: Superwhite with matching edging. Kickplate: to be bisonboard molerators storm/ dove grey Doors: firmm Bisonboard maintated in four sided post form full wrap in formical laminate manufacturer: PG Bison, colour: Formica storm/ dove grey Top: 30mm thick Bisonboard laminated in four sided post form full wrap in formical laminate manufacturer: PG Bison, Color: Formica storm/ dove grey Top: 30mm thick Bisonboard laminated in four sided post form full wrap in formical laminate manufacturer: PG Bison, Color: light grey 1) Cupboard size 2200mm long x 900mm high x 500mm deep Service door size: 2700mm heigh x 670mm wide No 2.0 Qupboard size 2200mm long x 900mm x 500mm deep No 1.0 Kitchen cupboard 1855mm x 650mm x 900mm k 500mm deep No 2.0 Kitchen cupboard 1855mm x 650mm x 900mm high with 30mm thick "eezi quartz" white stone counter tops with 2 - 3mm bevel on surface edge, "PG Bison" fiform Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 3 double hinged doors and necessary 8mm thick steel carcass framework epoxy 1) power coated (sink elsewhere) Floor cupboard 1 600mm x 650mm x 900mm high with 30mm thick "eezi quartz" white stone counter tops with 2 - 3mm bevel on surface edge, "PG Bison" 16mm Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 6 double hinged doors, necessary 8mm thick steel carcass framework epoxy power coated Wall cupboard 1 600mm x 400mm x 720mm high "PG Bison" 16mm Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 6 double hinged doors, necessary 8mm thick steel carcass framework epoxy power coated WOODEN DOORS Supply and install 813 x 2 032 x 44mm thick semi s	1)	face	m ²	21.3	
Melamine floor cupboards in all offices and boardroom fitted below the windows against the wall with doors, handles, complete all as per the Drawing. Carcass: 16mm Bisconboard melawood Manufacturer: PG Bison, colour: Superwhite with matching edging. Kickplate: to be bisconboard misisture resistant chipboard with formica laminate face, Manufacturer: PG Bison, colour: Formica storm/ dove grey Doors: 16mm Bisconboard Iministed in four sided post form full wrap in formica laminate manufacturer: PG Bison, Color Formica storm/ dove grey Top: 30mm thick Bisconboard Iministed in four sided post form full wrap in formica laminate manufacturer: PG Bison, Color: light grey 1) Cupboard size 2200mm long x 900mm high x 500mm deep 1) Cupboard size 2200mm long x 900mm kigh x 500mm deep 2) Service door size: 2700mm heigh x 670mm wide 3) Cupboard size 2700mm heigh x 670mm wide 4) Cupboard size 2100 mm long x 900mm x 500mm deep No 2,0 Kitchen cupboard Sink cupboard 1655mm x 650mm x 900mm high with 30mm thick "eezi quartz" white stone counter tops with 2 - 3mm bevel on surface edge, "PG Bison" form Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 3 double hinged doors and necessary 8mm thick steel carcass framework epoxy power coated (sink elsewhere) Floor cupboard 1 600mm x 650mm x 900mm high with 30mm thick "eezi quartz" white stone counter tops with 2 - 3mm bevel on surface edge, "PG Bison" 16mm Bisonboard Melawood superwhite sides, with drawers and sliding pull out bin box and the plastic bin 3) Wall / overhead cupboard Wall cupboard 1 600mm x 400mm x 720mm high "PG Bison" 16mm Bisonboard Melawood superwhite sides, bottom, division, shelf, back and 6 double hinged doors, necessary 8mm thick steel carcass framework epoxy power coated WOODEN DOORS Supply and install 813 x 2 032 x 44mm thick semi solid flush panel door, complete with hinges including handles. No 4.0	2)	vanes, manual controls, left / right hand stacking head and bottom rails, blinds	m²	12.5	
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Cupboard size 2100 mm long x 900mm x 500mm deep No 2.0	,		_		
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Supply and install 813 x 2 032 x 44mm thick semi solid flush panel door, complete with hinges including handles. No 4.0 STEEL FRAMES Supply and install steel door frames W813mm x H2032mm x D230mm to	3)	Wall cupboard 1 600mm x 400mm x 720mm high "PG Bison" 16mm Bisonboard Melawood superwhite sides,bottom, division, shelf, back and 6 double hinged doors,necessary 8mm thick steel carcass framework epoxy			
3) STEEL FRAMES Supply and install steel door frames W813mm x H2032mm x D230mm to	2)	Supply and install 813 x 2 032 x 44mm thick semi solid flush panel door,	No	4.0	
manufacturer's specification NO 3.0	3)	STEEL FRAMES Supply and install steel door frames W813mm x H2032mm x D230mm to			
		manufacturer's specification	INO	3.0	

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_	FLOOR COVERINGS "Belgotex Battleship", 500x500mm Bitumen backed tufted loop pile carpet tile manufactured from 100% solution dyed nylon, installed tesselated and to be laid in accordance with the SANS 10186 Code of practice	m²	75.3		
J	TILING REMEDIAL WORKS Make good of walls and floor with approved self-levelling screed to receive new				
43	tiles. Walls	m²	400.0		
1)	Floors	m ²	123.0		
2)	Floors	m	51.9		
	600 x 600mm glazed porcelain wall tile fixed with adhesive to plaster Color: Murano bianco, grout: white				
3)	Bathroom wall up to ceiling height	m ²	62		
4)	600mm x 600mm porcelain tile fixed with tile adhesive (splashback) Colour: light grey, grout grey	m²	3		
4)	220mm x 600mm "woodlook" tile fixed with Tal adhesive and flush pointed with Tal jointing compound laid and sealant to Manufacturer's specification Bathroom wall accent tile on narrow widths and splashback	m²	17.1		
	600mm x 600mm porcelain tile fixed with adhesive to floor slab				
	Colour: Grey, grout grey	2			
5)	Floors	m ²	38.4		
6)	Grey colour - Code BAWMo1 . Fixed with Tal adhesive and flush pointed with Tal jointing compound (All tiling to be laid with 5mm maximum consistent joints between tiles) laid and sealant to Manufacturer's specification Shower floor	m²	1.0		
-,					
K	SANITARY FITTINGS				
1)	Urinals Geberit hyTouch Samba pneumatic urinal actuator (article no. 116011.46.1) finished in chromium plated "matt" including housing (article no. 116.001.00.1) with shut off valve, flush pipe (article no. 119.704.16.1 lnlet set (article no. 152.489.16.1) and urinal trap (article no. 152.983.00.1) Deem to comply with specification: NB: All with Geberrit guarantee	No	1.0		
	"Geberit" white ceramic visible inlet urinal (Code 082830 0000), size 350 x 480				
	x 400mm, bolted to wall with stainless steel bolts and sealed abe Dow Corning				
2)	acetoxy silicone sealant, all in accordance to manufacturer's specification	No	1.0		
2)		140	1.0		
	Water closets				
3)	"Geberit Kombifix" concealed cistern for floor mounted WC (article no. 110.350.00.5), front actuated with "Samba" dual-flush actuator (Article no. 115.770.46.1) in chromium plated "matt" finish, including flush pipe and pan connector, water supply connection with angle valve stop valve, protection cover for flush pipe including fastening materials inside solid wall from 120mm up to 200mm. All with Geberit conditional guarantee	No	4.0		
3)		140	4.0		
4)	Hand wash basins "Vaal" white alpin ceramic above counter wash hand basin, size 450mm x 350mm x 135 with one tap hole and overflow, fixed to counter top and sealed with abe dow corning 785 acetoxy silicone sealant where basin rim meets counter top, all in accordance with the manufacturer's specification	No	4.0		
5)	Countertop 30mm "macadamia eezi quartz" top with 45° Mitred joint, 2 – 3mm Bevel on surface edge, fixed to supports using dab of 100% clear silicone adhesive. Top to be Min 1 024mm wide x 870mm high above floor level, 300mm downstand to cover service below vanity slab.	No	1.0		
	$30 mm$ "macadamia eezi quartz" top with 45^0 Mitred joint, $2-3 mm$ Bevel on surface edge, fixed to supports using dab of 100% clear silicone adhesive. Top to be Min $595 mm$ wide x $870 mm$ high above floor level, $300 mm$ downstand to cover service below vanity slab.	No	2.0		
	PLUMBING & DRAINAGE				
6)	Budgetary allowances to be included for work which has not been fully designed. The work is to be executed as directed by the project manager. The work will be measured and priced at contract rates. The price includes removal of old pipes, chasing of pipes, connecting and testing.	Prov.Sum	1.0	R 30 000.00	
	Kitchen sink 1 360mm x 500mm "Franke cascade model CDX671" sink with two 343mm x 410mm x 157mm deep and 160mm x 280mm x 139mm deep bowls fitted onto cupboard (cupboard elsewhere) including PVC traps (traps elsewhere) with two 90mm waste fittings (elsewhere) including installing and connecting to	No	1.0		
	Kitchen sink mixer				
	"cobra"chrome plated Kitchen Mixer with swivel spout	No	1.0		

	<u>Hand wash basin mixer</u> 80mm cobra chrome plated single lever raised basin mixer	No	4.0	
	Shower Tap "cobra" Tap Shower Mixer Chrome (Including Concealed set)	No	1.0	
	Shower head "cobra" 200x200mm slim square showerhead including arm	No	1.0	
L	ELECTRICAL INSTALLATIONS Cabstrut N8/801 fixed splice" two tier three compartment power skirtings with powder coated finish, fixed to walls			
1)	Supply and install double compartment steel electrical skirting: Color: dark grey including the sockets (excluding cables)	m	20.4	
2)	Supply and install LED lights 600x600mm	No	16.0	
4)	Allow for wiring and accessories Allow for chasing the light switches into the walls and make good D205,207,209,211,213,206,208, 312)	Sum	1.0	
M	MECHANICAL INSTALLATION			
	1. The 2 air-conditioning brands that the CSIR allows uses are Samsung, and Mitsubishi. Only heat pump, inverter-type units are allowed (no fixed speed). 2. The air conditioning contractor must make good all openings through walls, slabs and ceilings. Slab opening must be waterproofed. 3. Condensing units should to be mounted on ground floor or roof slab for easy maintenance access. Any other position must be approved by the zone supervisor or HVAC specialist. 4. Condensing units must be installed against the wall on approved brackets at a minimum 300mm AFL (above floor level) on the roof and 600mm AFL on the ground floor. 5. A floor mounted plinth must first be discussed and approved by the zone supervisor or HVAC specialist. 6. Only copper refrigerant pipes and blue PVC drain pipes are allowed. 7. All internal pipes and cables to be in PVC trunking and external pipes in galvanised trunking. 8. The air-conditioning units must be vacuumed and pressure tested. 9. Only core drilling is permitted for the walls and slab. 10. The CSIR electricians will be responsible for pulling supply from the DB to the isolator. The supplier will be responsible for connecting the power to the aircon units. 11. All equipment should come with a manufacturer's warranty. 12. Manufacturer's operations and maintenance manuals must be provided for all installations.			
	ROOM D205			
7	SUPPLY & INSTALL CEILING CASSETTE UNIT COMPLETE WITH CONDENSER UNIT			
	(12000BTU) Inverter type SAMSUNG Installation to be complete with: Suitable Refrigerant pipes & complete with armaflex - allow 30m each Electrical Connections from DB to unit (Circuit breaker, Isolator, cabling etc.) Condensate Drain Hardwired remote controller mounted on the wall next to light switch Galvanized Trunking for all external exposed pipes PVC Trunking for all internal exposed pipes Communication cable Supporting brackets Wiremesh cable tray for all pipes in ceiling void Any consumables/sundries to make the system work Testing and commissioning 12 months warranty R410 gas	No	1.0	
8	ROOM D206 SUPPLY & INSTALL CEILING CASSETTE UNIT COMPLETE WITH CONDENSER UNIT (18000BTU) Inverter type SAMSUNG	No	1.0	
	Installation to be complete with: Suitable Refrigerant pipes & complete with armaflex - allow 30m each Electrical Connections from DB to unit (Circuit breaker, Isolator, cabling etc.) Condensate Drain Hardwired remote controller mounted on the wall next to light switch Galvanized Trunking for all external exposed pipes PVC Trunking for all internal exposed pipes Communication cable Supporting brackets Wiremesh cable tray for all pipes in ceiling void Any consumables/sundries to make the system work Testing and commissioning 12 months warranty R410 gas			

9	ROOM D207 SUPPLY & INSTALL CEILING CASSETTE UNIT COMPLETE WITH CONDENSER UNIT			
0	(24000BTU) Inverter type SAMSUNG	No	1.0	
	Installation to be complete with:			
	Suitable Refrigerant pipes & complete with armaflex - allow 30m each			
	Electrical Connections from DB to unit (Circuit breaker, Isolator, cabling etc.)			
	Condensate Drain			
	Hardwired remote controller mounted on the wall next to light switch			
	Galvanized Trunking for all external exposed pipes			
	PVC Trunking for all internal exposed pipes			
	Communication cable			
	Supporting brackets			
	Wiremesh cable tray for all pipes in ceiling void			
	Any consumables/sundries to make the system work			
	Testing and commissioning			
	12 months warranty			
	R410 gas			
	ROOM D208			
	SUPPLY & INSTALL CEILING CASSETTE UNIT COMPLETE WITH			
10	CONDENSER UNIT	No	2.0	
	(12000BTU) Inverter type SAMSUNG			
	Installation to be complete with:			
	Suitable Refrigerant pipes & complete with armaflex - allow 30m each			
	Electrical Connections from DB to unit (Circuit breaker, Isolator, cabling etc.)			
	Condensate Drain			
	Hardwired remote controller mounted on the wall next to light switch			
	Galvanized Trunking for all external exposed pipes			
	PVC Trunking for all internal exposed pipes			
	Communication cable			
	Supporting brackets			
	Wiremesh cable tray for all pipes in ceiling void	1		
	Any consumables/sundries to make the system work	1		
	Testing and commissioning			
	12 months warranty			
	R410 gas			
	Allow for the removal of existing air-conditioning units and store them in storage			
11	provided by Client.	Sum	1.0	
N	EXISTING FIRE DETECTORS			
	Allow for the removal and re-installation of the existing fire detectors once the			
	ceiling has been installed	Sum	1	
	Subtotal			
	10% Contingency			
	Contract Price excl. VAT			
	15% VAT			-
	Total			