

The supply and installation of the following surface mounted distribution boards in line with SABS standards

7	DB-TSS - 250A TP Main DB	Item
8	DB-TSS1 - 80A TP BLOCK Q - FED FROM MAIN DB	Item
9	DB-TSS2 - 80A TP BLOCK T - 100A TP FED FROM MAIN DB	Item
10	DB-TSS3 - (BLOCK G) - 80A TP FED FROM MAIN DB	Item
11	DB-TSS4 - (BLOCK K-) - 80A TP FED FROM MAIN DB	Item
12	DB-TSS5 - (BLOCK S-) - 60A SP FED FROM MAIN DB	Item
<u>Sub DBs fed from DB-BLOCK Q</u>		
13	DB - BLOCK P 40A SP	Item
14	DB - BLOCK Q1 63A TP	Item
15	DB - BLOCK Q2 63A TP	Item
<u>Sub DBs fed from DB-BLOCK T</u>		
16	DB - BLOCK U1 63A TP	Item
17	DB - BLOCK U2 63A TP	Item
18	DB - BLOCK U3 63A TP	Item
<u>Sub DBs fed from DB-BLOCK G</u>		
19	DB - BLOCK C 63A TP	Item
20	DB - BLOCK H 63A SP	Item
21	DB - BLOCK F 63A SP	Item
22	DB - BLOCK V 63A SP	Item
<u>Sub DBs fed from DB-BLOCK K</u>		
23	DB - BLOCK N 63A TP	Item

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Electrical Work (Provisional)
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24	DB - BLOCK L 63A SP		Item	
25	DB - BLOCK M 63A SP		Item	
	<u>Sub DBs fed from DB-BLOCK N</u>			
26	DB - BLOCK B 63A SP		Item	
	<u>Sub DBs fed from DB-BLOCK C</u>			
27	DB - BLOCK D 63A SP		Item	
28	DB - BLOCK J 63A SP		Item	
29	DB - BLOCK O 32A SP		Item	
30	DB - BLOCK A 32A SP		Item	
	<u>External Lighting Kiosks</u>			
31	DB - Kiosk 1 63A SP		Item	
32	DB - Kiosk 2 63A SP		Item	
33	DB - Kiosk 3 63A SP		Item	
34	DB - Kiosk 4 63A SP		Item	
35	DB - Kiosk Swim 63A SP		Item	
36	DB - Kiosk Swim 63A SP		Item	
37	Profit on provisional sum		%	
	<u>Cable Terminations:</u>			
	Note: Rates Include Armour Glands, Shrouds, Lugs and Connections and Include Drilling of Holes to dB's and Wire Ways:			
38	150 mm x 4-core PVC-SWA cable.	No	4	
39	120 mm x 4-core PVC-SWA cable.	No	4	
40	95 mm x 4-core PVC-SWA cable.	No	2	
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41	50 mm x 4-core PVC-SWA cable.	No	4
42	35 mm x 4-core PVC-SWA cable.	No	8
43	16 mm x 4-core PVC-SWA cable.	No	12
44	10 mm x 4-core PVC-SWA cable.	No	24
45	16 mm x 3-core PVC-SWA cable.	No	36
46	10 mm x 3-core PVC-SWA cable.	No	36

TRENCHING AND BACKFILLING**Trenching**

47	Trenching to lay cable in sleeve	m	2 600
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Backfilling

48	Backfilling required as initially found.	m	2 600
49	110mm Black flexible PVC sleeve with draw wire	m	1 200
50	50mm Black flexible PVC sleeve with draw wire	m	1 400

ALTERNATIVE POWER

Rates for supplying and installing the solar panels, batteries, invertors and ATS panel as specified by engineer.

51	Supply and install PV panels, inverters and ATS panel. with 1 year warranties.	Item
52	60kVA Standby Generator (enclosed type) with sound attenuated weatherporof canopy @60db @7m complete with sensors.	Item
53	3Year maintenance period of the PV/Battery Hybrid system beyond the 1year warranty period.	Item

LIGHT FITTINGS

Rates for supplying lighting fittings, type of lamps and wattage are described.

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54	Supply and install a 4400lm LED, Cool white, Linear Light fitting with diffuser. Brand: Enlite Code: EN-SFS1240/40 OR Equal and approved. TYPE B	No	494		
55	Supply and Install as above but with 20% maintained battery pack (Cool white). A separate non-switched live feed from out-going side of MCB to emergency fitting is to be Installed. 24hr. Supplier: Aurora Lighting. Brand: Enlite Code:EN-SFS1240/40EM TYPE BE	No	113		
56	Supply and install 15W Cool white polycarbonated round drum LED wall mounted bulkhead. Brand: Enlite Code: EN-BH15/40 TYPE BH1	No	329		
57	Supply and install 20W Cool white polycarbonated round drum LED wall mounted bulkhead IP65. Brand: Enlite Code: EN-BH120/40 TYPE BH2	No	332		
58	Supply and install 15W Cool white polycarbonated round drum LED surface mounted bulkhead with 20% maintained battery pack (Cool white). A separate non-switched live feed from out-going side of MCB to emergency fitting is to be Installed. 24hr. Brand: Enlite Code: EN-BH15/40 TYPE BH3	No	97		
59	Supply and install 30W Helius Plus IP65 flood light mounted mounted at high level. Cat, No. EN-FL30B TPYE FL Finish - BLACK.	No	39		
60	Supply and install SOL-ONE 36W LED pole mounted fitting. Luminaire PHA-QN-BEKA Lighting with galvanised pole. Or eqqually approved by the electrical engineer.	No	52		
61	Profit		%		
<u>Appliances</u>					
<u>Switched Sockets</u>					
Note: Crabtree Diamond Range, or Equal and Approved 16A 3-pin Single Phase Standard Switched Socket Outlet, including Installation and Connection of the Socket and Switch Assembly and Cover Plate, including Box.					
62	Duo flush mounted.	No	130		
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63	Single Flush mounted in 100 x 100 box - Normal Earth Pin.	No	70		
64	Mounted in ceiling void - White Plug.	No	34		
65	Euro plug - White Plug.	No	140		
<u>Crabtree, or Eal and Approved 16A 3-Pin Flat Earth Pin Type Single Phase Switched Socket Outlet, Including Installation and Connection of the Socket and Switch Assembly and Cover Plate, including Box</u>					
66	Single flush Mounted WHITE - Flush mounted in power skirting including mounting plate.	No	60		
67	13A Two pin international unswitched socket outlet - BS Standard.	No	30		
<u>Plug Points Isolators and Switches</u>					
68	Supply and Install New One (1) Lever One (1) Way light switch suitable for 100 x 100 PVC Box complete with cover plates.	No	324		
69	Supply and Install New Two (2) Lever One (1) Way light switch suitable for 100 x 100 PVC Box complete with cover plates.	No	10		
70	Supply and Install New day night switch for external lighting	No	42		
71	Supply and Install Data Point Cradle and Cover plate suitable for 100 x 100 mm PVC box. Flush Mounted	No	62		
72	Supply and Install New Telephone Point Cradle and Cover plate suitable for 100 x 100 mm PVC box. Flush Mounted	No	18		
73	Supply and Install Data Point Cradle and Cover plate suitable for mounting in power skirting.	No	84		
74	Supply and Install double pole isolator 20A Isolator	No	8		
75	Supply and Install double pole isolator 20A Isolator with weaterproof protection.	No	9		
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76	Supply and Install tripple pole isolator 20A Isolator with weatherproof protection.	No	18		
77	Supply and Install tripple pole isolator 30A Isolator with weatherproof protection.	No	6		
<u>Wireways</u>					
<u>Cab Strut P803, 3-Compartment Power Skirting Hospital Grey Finish, Surface mounted on Perimeter Wall/partition, Including all Accessories, Front Covers, Chassis Punched Holes and Installation to Complete</u>					
78	Power skirting, Surface Mounted (per metre)	m	140		
79	Power skirting, End caps.	No	53		
80	Power skirting, 90 degree complete bend-piece	No	16		
<u>Galvanised Steel Wiring Trunking Complete with all Accessories, Metal Cover plates, and as Indicated on Drawings, Suspended from Slab or Steel Structure, excluding Conduit Work and Wiring. Supports to Include all Galvanised Hanger brackets, 10 mm Threaded Rod & Rawlbolts/Clamps etc. Spacing Shall be in Accordance with SANS 10142:1 2003, as Amended.</u>					
81	Galvanised Wire Trunking, P9000 (126 x 76 mm).	m	4 488		
82	Galvanised Wire Trunking, P8000 (76 x 76 mm).	m	190		
83	Galvanised Wire Trunking, P9000 Splayed Distribution Board entry.	No	48		
84	Galvanised Wire Trunking, P9000 Reducer to P8000	No	76		
<u>Bends:</u>					
85	Galvanised Bends, P9000 (126 x 76 mm).	No	97		
86	Galvanised Bends, P8000 (76 x 76 mm).	No	19		
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T-Pieces:

87	Galvanised T-Piece, P9000 (126 x 76 mm).	No	145
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4Way Cross Over-Pieces:

88	Galvanised 4Way, P9000 (126 x 76 mm).	No	22
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End Caps:

89	Galvanised End Caps, P9000 (126 x 76 mm).	No	150
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Galvanised Welded Medium Duty Wire Mesh Basket Tray Complete with all Splices and as Indicated on Drawings, Suspended from Slab or Steel Structure, Excluding Conduit Work and Wiring. Supports to Include all Galvanised Hanger Brackets, 10mm Threaded Rod, Rawlbolts/clamps, etc. Spacing Shall be in Accordance with SANS 10142:1 2003, as Amended.

90	300 mm Galvanised Basket Tray. (Medium).	m	1 337
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91	300 mm Galvanised Basket Tray 4-way. (Medium).	No	30
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92	300 mm Galvanised Basket Tray T-Piece. (Medium)	No	96
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93	300 mm Galvanised Basket Tray Bend. (Medium)	No	185
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Cables:

Note: Rates Include for Supply, Delivery and Complete Installation of the following Copper Cables laid in Trenches, Installed in Sleeves, Fixed on surface and Laid on trays.

94	150 mm x 4-core PVC-SWA cable.	m	250
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95	95 mm x 4-core PVC-SWA cable.	m	50
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96	50 mm x 4-core PVC-SWA cable.	m	300
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97	35 mm x 4-core PVC-SWA cable.	m	320
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98	25 mm x 4-core PVC-SWA cable.	m	70
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99	16 mm x 4-core PVC-SWA cable.	m	90		
100	10 mm x 4-core PVC-SWA cable.	m	70		
101	25 mm x 3-core PVC-SWA cable.	m	150		
102	16 mm x 3-core PVC-SWA cable.	m	240		
103	10 mm x 3-core PVC-SWA cable.	m	50		
104	Supply and install 6 mm PVC insulated copper wire	m	35		
105	Supply and install 4 mm PVC insulated copper wire	m	30		
106	Supply and Install 2.5 mm PVC insulated copper wire.	m	17 068		
<u>Insulated Earth Wire, Drawn into Conduit, Wiring Channel or Power Skirting:</u>					
107	2.5 mm Insulated Earth Wire.	m	8 952		
108	4 mm Insulated Earth Wire.	m	65		
109	10 mm Bare Copper Earth Wire.	m	90		
110	16 mm Bare Copper Earth Wire.	m	390		
111	25 mm Bare Copper Earth Wire.	m	300		
112	50 mm Bare Copper Earth Wire.	m	450		
113	Copper Earth Bar (10 way - Predrilled (250mm X 25 mm x 5 mm), mounted on Insulated Supports at 300 mm AFFL. 10 -13mm earth cable. Earth Resistance less than 10ohms.	No	2		
<u>PVC Conduit Chased in Brickwork, Including Chasing. (Making Good by Others)</u>					
114	20 mm PVC Conduit including Chased in Bricks.	m	7 158		
115	25 mm PVC Conduit including Chased in Bricks.	m	828		
<u>PROVISIONAL SUMS - GENERAL</u>					
116	Earthing and Lighting Protection (less than 8ohms)		Item		250 000.00
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117	Public Address System	Item	500 000.00
118	CCTV and Security system.	Item	800 000.00
119	Power to specialized equipment	Item	150 000.00
120	Commissioning and testing	Item	210 000.00
121	COC	Item	6 500.00
	<u>OTHER</u>		
122	Design and development allowance	Item	200 000.00

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<u>TRANSPORT AND DELIVERY</u>				
6	Distance of Return Trip to site	km	1	Rate only
7	Vehicle up to 1 ton	km	1	Rate only
8	Vehicle up to 2 ton	km	1	Rate only
9	Vehicle up to 5 ton	km	1	Rate only
10	Vehicle over 5 ton	km	1	Rate only
<u>MARK-UP ON COST</u>				
11	(Overhead & Profit)		%	Rate only
<u>BILL 1 - PRELIMINARIES</u>				
<u>PRELIMINARIES</u>				
The subcontract to be entered into between the Principal Contractor and the nominated/selected sub-contractor shall conform to and incorporate the Main Contract Agreement.				
Preliminary and General Conditions of the Main Contract are not included in the Specification Document and shall part of this Contract				
The tenderer is referred to the above mentioned documents for the full intent and meaning of each clause thereof				
If the tenderer wishes to place value to any of the clauses detailed in the Preliminaries he/she should do so hereunder.				
<u>PRELIMINARIES AND GENERAL CONDITIONS PERTAINING TO THIS CONTRACT</u>				
12	Clearance of Rubbish		Item	
13	Retention Interest		Item	
14	Site Establishment & Clearance		Item	
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15	Scaffolding	Item		
16	Performance Guarantee	Item		
17	Payment Guarantee	Item		
18	Staff Organization	Item		
19	Progress of Measurement	Item		
20	Attendance for Mesurement	Item		
21	Tests and Inspections	Item		
22	Preparation of Operating and Maintenance Manuals	Item		
23	As-Built Drawings	Item		
24	12 Months Guarantee and Maintenance	Item		
25	Programming of the Work	Item		
26	Tests, Balancing and Commissioning	Item		
27	Equipment Submissions	Item		
28	Contract Drawings	Item		
29	Contract Management	Item		
30	Office Administration	Item		
31	Truck Trips	Item		
32	Rigging and Crane Hire	Item		
33	Safety File	Item		
34	Equipment Labels	Item		
35	Overtime and Accelerations	Item		
36	Out of Town costs and Accomodation	Item		
37	Water and Power for commissioning if JBCC Document	Item		
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38	Any additional items of Preliminary nature that the Tenderer may wish to add to comply with requirements of specification and/or Bill of Quantities		Item		
	<u>Air Conditioning Installation - BLOCK C</u>				
	<u>HVAC</u>				
	<u>Supply, installation and commissioning of air conditioning systems, complete, including the condenser unit(outdoor) & evaporator units(indoor), refrigeration and condensate drain piping, insulation to refrigerant piping, inter connecting wiring, support brackets, Galvanised trunking for hiding pipe work, fittings etc. For pricing allow sufficient distance between indoor / outdoor unit, - (ø32mm PVC pipe), power supply cable from local isolator to condenser & indoor units.</u>				
39	AC 01 3,5kW Inverter DX Midwall Unit	No	1		
40	Ø6,4mm refrigerant Aluminum piping	m	6		
41	Ø12,8mm refrigerant Aluminum piping	m	6		
42	Piping insulation	m	12		
43	Ø32mm uPVC condensate drain pipe	m	3		
44	Electrcial connection (Isolator next to the unit by Electrician	No	1		
45	Hardwired remote contoller	No	1		
46	AC 02 2.5kW Midwall Inverter Unit	No	2		
47	Ø6,4mm refrigerant Aluminum piping	m	12		
48	Ø12,8mm refrigerant Aluminum piping	m	12		
49	Piping insulation	m	24		
50	Ø32mm uPVC condensate drain pipe	m	12		
51	Electrcial connection (Isolator next to the unit by Electrician	No	2		
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Air Conditioning Installation - BLOCK F

66	Ventilation Supply and Install Dia 350 Window/Wall mounted fan	No	1
67	Electrical connection. Power point next to fan to be supplied by Electrician		Item
68	400 x 400 door grill	No	1
69	Supply and install dia 300 uPCV duct for the fume cupboard	m	3
70	Supply and install dia 300 uPCV duct bends	No	4
71	Supply and install dia 350 centrifugal uPVC fan for the fume cupboard, flow 400l/s, static pressure 200Pa	No	1
72	Electrical connection. Power point next to fan to be supplied by Electrician		Item
73	Discharge cowl with wire mesh	No	1

Air Conditioning Installation - BLOCK R**HEATING VENTILATION & AIR CONDITIONING SYSTEMS****Make Up Air**

74	1200 x 600 Weather louver complete	No	4
75	1650 x1650 x 1000mm Long plenum box complete with stop end	No	1
76	1651 x1650 x 50mm thick filter frame c/w mech frame	No	1
77	1200 x1200 to dia 710 duct transformation 600mm long	No	1
78	Dia 710 duct	m	2
79	Dia 710 duct bend	No	1
80	Dia 710 Axial fan complete with 1.5D 2 off sound attenuators and flexibles. Interlinked with canopy extract fan	No	1

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81	Dia 710 to 1200 x 400 duct transformation 600mm long	No	1		
82	1200 x 400 duct	m	3		
83	1200 x 400 duct stop end	No	1		
84	600x400 duct	m	12		
85	600x400 Stop end	No	2		
86	Dia 450 spigots	No	8		
87	1200x600 Single curved blade supply air grille c/w, 2 off Dia 450 spigots and plenum	No	4		
88	Dia 450 flexible duct	m	6		
89	Canopy Extraction 5460 x 2670 x 610 mm Box type grade 430 S/S canopy c/w grease filters, vapour proof fluorescent lights and fire suppression system	No	1		
90	1000 x 600 ,1.6 gauge black steel duct	m	5		
91	1000 x 600 ,1.6 gauge black steel duct stop end	No	1		
92	1000 x 600 ,1.6 gauge 900 black steel duct bend	No	2		
93	1000 x 600 to dia 800 duct transformation, 600mm long 1.6 gauge	No	1		
94	Dia 800 Bifurcated Axial fan complete with 1.5D 2 off sound attenuators and flexibles. Interlinked with fresh air fan	No	1		
95	Dia 800 to dia 1000 duct transformation 600mm long 1.6 gauge	No	1		
96	Dia 800 black steel duct	m	2		
97	Dia 1000, 900 bend	No	2		
98	Vertical Discharge Shutter (size DVRA 900)	No	1		
99	Fan on/off switch	No	1		
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100	Dining Hall Ventilation Cyclovent dia 450mm Zinc Aluminium ventilators	No	8		
101	1200x600 Single curved deflection blade return air grille c/w filters, 1 off dia 450 spigots	No	8		
102	Dia 450 flexible ducting	m	12		
103	Dia 450 round duct	m	16		
<u>FIRE SERVICES</u>					
<u>PRELIMINARIES AND GENERALS - FIRE EQUIPMENT AND SIGNAGE</u>					
<u>PRELIMINARIES</u>					
The subcontract to be entered into between the Principal Contractor and the nominated/selected sub-contractor shall conform to and incorporate the Main Contract Agreement.					
Preliminary and General Conditions of the Main Contract are not included in the Specification Document and shall be part of this Contract					
The tenderer is referred to the above mentioned documents for the full intent and meaning of each clause thereof					
If the tenderer wishes to place value to any of the clauses detailed in the Preliminaries he/she should do so hereunder.					
<u>PRELIMINARIES AND GENERAL CONDITIONS PERTAINING TO THIS CONTRACT</u>					
104	Clearance of Rubbish			Item	
105	As-Built Drawings and Manuals			Item	
106	12 Months Maintenance under guarantee			Item	
107	Site Establishment and Removal			Item	
108	Safety File			Item	
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109	Contract Mangement		Item		
110	Transportation of material and staff		Item		
111	Staff Training		Item		
112	Tests, Balancing and Commissioning		Item		
113	Any additional items of Preliminary nature that the Tenderer may wish to add to comply with requirements of specification and/or Bill of Quantities		Item		
	<u>Fire Equipment and Signage</u>				
	<u>Site Plan</u>				
	<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>				
114	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	20		
	<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>				
115	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	10		
	<u>Block A & O</u>				
	<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>				
116	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	2		
	<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>				
117	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	4		
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Block B**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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|-----|---|----|---|--|--|
| 118 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 9 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 119 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 17 | | |
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Block C**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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| 120 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 4 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 121 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 14 | | |
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Block D**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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| 122 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 7 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 123 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 18 | | |
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Block E**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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|-----|---|----|---|--|--|
| 124 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 6 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 125 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 10 | | |
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Block F**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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|-----|---|----|---|--|--|
| 126 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 6 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 127 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 15 | | |
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Block F**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

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|-----|---|----|---|--|--|
| 128 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 6 | | |
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

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| 129 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 15 | | |
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Block G**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

- | | | | | | |
|-----|---|----|---|--|--|
| 130 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 2 | | |
|-----|---|----|---|--|--|

INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

- | | | | | | |
|-----|---|----|---|--|--|
| 131 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 8 | | |
|-----|---|----|---|--|--|

Block H**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

- | | | | | | |
|-----|---|----|---|--|--|
| 132 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 2 | | |
|-----|---|----|---|--|--|

INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

- | | | | | | |
|-----|---|----|---|--|--|
| 133 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 8 | | |
|-----|---|----|---|--|--|

Block J**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

- | | | | | | |
|-----|---|----|---|--|--|
| 134 | The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations. | No | 2 | | |
|-----|---|----|---|--|--|

INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

- | | | | | | |
|-----|---|----|---|--|--|
| 135 | The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations. | No | 8 | | |
|-----|---|----|---|--|--|

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Block K**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

136	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	4
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

137	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	16
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Block L**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

138	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	4
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

139	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	16
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Block M**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

140	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	2
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

141	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	8
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Carried to Collection**R**

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Block N**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

142	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	4		
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

143	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	16		
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Block P**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

144	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	5		
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

145	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	20		
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Block Q**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

146	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	30		
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

147	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	90		
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Carried to Collection**R**

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Block R**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

148	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	18
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INTERNAL 6L WET CHEMICAL FIRE EXTINGUISHERS

149	The Contractor shall make provision for 6L Wet Chemical Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	2
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150	Fire Blanket	No	1
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

151	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	90
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Block S**INTERNAL 4.5kg DCP FIRE EXTINGUISHERS**

152	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	3
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INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE

153	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	8
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Block T**Carried to Collection****R**

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<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>			
154	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	6
<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>			
155	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	20
<u>Block U</u>			
<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>			
156	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	30
<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>			
157	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	90
<u>Block V</u>			
<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>			
158	The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations.	No	1
<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>			
159	The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage in accordance to SANS 10400 and Local Fire Department Regulations.	No	2
<u>SMOKE DETECTION</u>			
Carried to Collection			R
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Block P

160	Analogue Addressible smoke detection panel	No	1
161	Global Repeater	No	1
162	Battery 12V 7AH	No	2
163	Optical Smoke Detectors	No	26
164	Standard Bases	No	26
165	Sounder/Strobe combo	No	5
166	Manual call points	No	5
167	Spare glass for MCP 10 pack	No	2
168	i/o Modules	No	1
169	Network board	No	1
170	Fire Resistant Cabling -ph120	m	650
171	Saddles, Sprag, etc.		Item
172	Heat Detectors	No	1
173	Standard Bases	No	1
174	Cable tray to contain the fire cables	m	95

Block Q

175	Analogue Addressible smoke detection panel	No	3
176	Global Repeater	No	3
177	Battery 12V 7AH	No	6
178	Optical Smoke Detectors	No	90
179	Standard Bases	No	90
180	Sounder/Strobe combo	No	18

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203	Standard Bases	No	10		
204	Cable tray to contain the fire cables	m	120		
<u>Block T</u>					
205	Analogue Addressible smoke detection panel	No	1		
206	Global Repeater	No	1		
207	Battery 12V 7AH	No	2		
208	Optical Smoke Detectors	No	26		
209	Standard Bases	No	26		
210	Sounder/Strobe combo	No	5		
211	Manual call points	No	5		
212	Spare glass for MCP 10 pack	No	2		
213	i/o Modules	No	1		
214	Network board	No	1		
215	Fire Resistant Cabling -ph120	m	650		
216	Saddles, Sprag, etc.		Item		
217	Heat Detectors	No	1		
218	Standard Bases	No	1		
219	Cable tray to contain the fire cables	m	95		
<u>Block U</u>					
220	Analogue Addressible smoke detection panel	No	3		
221	Global Repeater	No	3		
222	Battery 12V 7AH	No	6		
223	Optical Smoke Detectors	No	90		
Carried to Collection				R	
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224	Standard Bases	No	90
225	Sounder/Strobe combo	No	18
226	Manual call points	No	18
227	Spare glass for MCP 10 pack	No	6
228	i/o Modules	No	3
229	Network board	No	3
230	Fire Resistant Cabling -ph120	m	4 050
231	Saddles, Sprag, etc.		Item
232	Heat Detectors	No	12
233	Standard Bases	No	12
234	Cable tray to contain the fire cables	m	255

WET SERVICES**PRELIMINARIES AND GENERALS - WET SERVICES****PRELIMINARIES**

The subcontract to be entered into between the Principal Contractor and the nominated/selected sub-contractor shall conform to and incorporate the Main Contract Agreement.

Preliminary and General Conditions of the Main Contract are not included in the Specification Document and shall be part of this Contract

The tenderer is referred to the above mentioned documents for the full intent and meaning of each clause thereof

If the tenderer wishes to place value to any of the clauses detailed in the Preliminaries he/she should do so hereunder.

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**PRELIMINARIES AND GENERAL CONDITIONS
PERTAINING TO THIS CONTRACT**

235	Clearance of Rubbish		Item
236	Retention Interest		Item
237	Site Establishment & Clearance		Item
238	Preparation of Operating and Maintenance Manuals		Item
239	As-Built Drawings		Item
240	12 Months Guarantee and Maintenance		Item
241	Testing of drainage system as per SABS 0252:2 Part 6.8		Item
242	Camera Inspection and pressure cleaning of underground sanitary drainage lines before handover		Item
243	Testing of water supply system as per SANS 10252:1	No	1
244	Sterilization of water lines as per SANS 10252:1	No	1
245	Safety File and maintenance	No	1
246	Travelling to site		Item
247	Any additional items of Preliminary nature that the Tenderer may wish to add to comply with requirements of specification and/or Bill of Quantities		Item

BLOCK A & O

Drainage

**uPVC pipe installed in accordance with the
Manufacturers Specifications with and including
ring seal sockets, fusion welded joints in the running
length**

248	56mm pipe fixed vertically and horizontally, chased in wall	m	7
249	110mm pipe fixed vertically and horizontally	m	5

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250	110mm pipe buried underground	m	35		
	<u>Extra over on piping for:</u>				
251	56mm 90° Bend	No	7		
252	110mm to 56mm reducer	No	8		
253	110 mm Straight connecting pipe for wall hung WC	No	7		
254	110mm Pan connector	No	7		
255	Air vent cowl 110mm	No	12		
256	110mm Long radius Bend	No	12		
257	56mm P Traps	No	8		
258	connecting 110mm pipes to existing main pipes	No	12		
259	110mm Juctions	No	12		
260	Gulley grate and frame 190mm	No	4		
	<u>Domestic Water Supply</u>				
	<u>Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications</u>				
	All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete				
261	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	38		
262	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	10		
263	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	15		
	Carried to Collection			R	
	Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors				

264	28mm Diameter HDPE pipes underground	m	3		
	<u>Extra over on piping for</u>				
265	15mm Tee	No	10		
266	20mm Tee	No	6		
267	20mm/15mm Reducing Tee	No	8		
268	15mm Bend	No	20		
269	20mm Bend	No	6		
270	28mm Bend	No	3		
	<u>Brassware including all adaptors, etc.</u>				
271	28mm Ball valve	No	2		
272	15mm angle valve	No	13		
273	15mm flexible connector	m	30		
274	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1		
	<u>BLOCK B</u>				
	<u>Drainage</u>				
	<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>				
275	56mm pipe fixed vertically and horizontally, chased in wall	m	6		
276	110mm pipe fixed vertically and horizontally	m	4		
277	110mm pipe buried underground	m	33		
	<u>Extra over on piping for:</u>				
278	56mm 90° Bend	No	6		
	Carried to Collection				
	Bill No. 19				
	Mechanical Work (Provisional)				
	GMTA Quantity Surveyors				

R

279	110mm to 56mm reducer	No	5
280	110 mm Complete stop end with screwed end	No	10
281	Air vent cowl 110mm	No	5
282	110mm Long radius Bend	No	6
283	56mm P Traps	No	5
284	connecting 110mm pipes to existing main pipes	No	4
285	110mm Junctions	No	4

Domestic Water Supply**Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications**

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

286	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	40
287	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	20
288	28mm Diameter HDPE pipes underground	m	10

Extra over on piping for

289	15mm Tee	No	12
290	20mm Tee	No	5
291	20mm/15mm Reducing Tee	No	5
292	15mm Bend	No	20
293	20mm Bend	No	3

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294	28mm Bend	No	2		
	<u>Brassware including all adaptors, etc.</u>				
295	28mm Ball valve	No	1		
296	15mm angle valve	No	5		
297	15mm flexible connector	m	10		
298	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1		
	<u>BLOCK C</u>				
	<u>Drainage</u>				
	<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>				
299	56mm pipe fixed vertically and horizontally, chased in wall	m	12		
300	110mm pipe fixed vertically and horizontally	m	17		
301	110mm pipe buried underground	m	100		
	<u>Extra over on piping for:</u>				
302	56mm 90° Bend	No	12		
303	110mm to 56mm reducer	No	12		
304	110 mm Straight connecting pipe for wall hung WC	No	6		
305	110mm Pan connector	No	6		
306	Air vent cowl 110mm	No	13		
307	110mm Long radius Bend	No	23		
308	56mm P Traps	No	10		
309	connecting 110mm pipes to existing main pipes	No	13		
	Carried to Collection				
	Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors			R	

310	110mm Junctions	No	13		
311	Gulley grate and frame 190mm	No	3		
<u>Domestic Water Supply</u>					
<u>Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications</u>					
All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete					
312	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	50		
313	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	25		
314	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	15		
315	28mm Diameter HDPE pipes underground	m	3		
<u>Extra over on piping for</u>					
316	15mm Tee	No	10		
317	20mm Tee	No	6		
318	20mm/15mm Reducing Tee	No	6		
319	15mm Bend	No	26		
320	20mm Bend	No	11		
321	28mm Bend	No	7		
<u>Brassware including all adaptors, etc.</u>					
322	28mm Ball valve	No	2		
Carried to Collection				R	
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323	15mm angle valve	No	18		
324	15mm flexible connector	m	30		
325	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1		
326	15l Hdroboil (wall mounted)	No	1		
<u>BLOCK D</u>					
<u>Drainage</u>					
<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>					
327	56mm pipe fixed vertically and horizontally, chased in wall	m	3		
328	110mm pipe fixed vertically and horizontally	m	3		
329	110mm pipe buried underground	m	20		
330	Extra over on piping for: 56mm 90° Bend	No	5		
331	110mm to 56mm reducer	No	3		
332	110 mm Complete stop end with screwed end	No	5		
333	110 mm Straight connecting pipe for wall hung WC	No	1		
334	110mm Pan connector	No	1		
335	Air vent cowl 110mm	No	3		
336	110mm Long radius Bend	No	4		
337	56mm P Traps	No	3		
338	connecting 110mm pipes to existing main pipes	No	4		
339	110mm Junctions	No	4		
Carried to Collection				R	
Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors					

340	Gulley grate and frame 190mm	No	2		
<u>Domestic Water Supply</u>					
<u>Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications</u>					
All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete					
341	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	44		
342	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	10		
343	28mm Diameter HDPE pipes underground	m	5		
<u>Extra over on piping for</u>					
344	15mm Tee	No	4		
345	20mm/15mm Reducing Tee	No	3		
346	15mm Bend	No	8		
347	20mm Bend	No	4		
<u>Brassware including all adaptors, etc.</u>					
348	22mm Ball valve	No	2		
349	15mm angle valve	No	4		
350	15mm flexible connector	m	5		
351	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1		
<u>BLOCK E</u>					
Carried to Collection				R	
Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors					

Drainage

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

352	56mm pipe fixed vertically and horizontally, chased in wall	m	18
353	110mm pipe fixed vertically and horizontally	m	10
354	110mm pipe buried underground	m	30
<u>Extra over on piping for:</u>			
355	56mm 90° Bend	No	15
356	110mm to 56mm reducer	No	8
357	110 mm Complete stop end with screwed end	No	9
358	110 mm Straight connecting pipe for wall hung WC	No	2
359	110mm Pan connector	No	2
360	Air vent cowl 110mm	No	7
361	110mm Long radius Bend	No	9
362	56mm P Traps	No	11
363	connecting 110mm pipes to existing main pipes	No	9
364	110mm Juctions	No	9
365	Gulley grate and frame 190mm	No	5

Domestic Water Supply**Carried to Collection**

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Bill No. 19
Mechanical Work (Provisional)
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Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

366	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	39
367	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	28
368	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	16
369	28mm Diameter HDPE pipes underground	m	5

Extra over on piping for

370	15mm Tee	No	8
371	20mm Tee	No	6
372	20mm/15mm Reducing Tee	No	8
373	15mm Bend	No	21
374	20mm Bend	No	7
375	28mm Bend	No	5

Brassware including all adaptors, etc.

376	28mm Ball valve	No	2
377	15mm angle valve	No	15
378	15mm flexible connector	m	26
379	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1

Carried to Collection

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Bill No. 19
Mechanical Work (Provisional)
GMTA Quantity Surveyors

BLOCK F**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

380	56mm pipe fixed vertically and horizontally, chased in wall	m	15
381	110mm pipe fixed vertically and horizontally	m	13
382	110mm pipe buried underground	m	65
<u>Extra over on piping for:</u>			
383	56mm 90° Bend	No	13
384	110mm to 56mm reducer	No	13
385	110 mm Complete stop end with screwed end	No	13
386	Air vent cowl 110mm	No	3
387	110mm Long radius Bend	No	13
388	56mm P Traps	No	13
389	connecting 110mm pipes to existing main pipes	No	13
390	110mm Juctions	No	13
391	Gulley grate and frame 190mm	No	3

Domestic Water Supply

Carried to Collection

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Bill No. 19
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Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

392	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	65
393	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	35
394	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	5
395	15mm Diameter HDPE pipes underground	m	10

Extra over on piping for

396	15mm Tee	No	5
397	20mm Tee	No	4
398	20mm/15mm Reducing Tee	No	5
399	15mm Bend	No	40
400	20mm Bend	No	10

Brassware including all adaptors, etc.

401	15mm Ball valve	No	13
402	15mm angle valve	No	13
403	15mm flexible connector	m	26
404	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	3

BLOCK G

Carried to Collection

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Bill No. 19
Mechanical Work (Provisional)
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Drainage

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

405	56mm pipe fixed vertically and horizontally, chased in wall	m	4
406	110mm pipe fixed vertically and horizontally	m	6
407	110mm pipe buried underground	m	26
<u>Extra over on piping for:</u>			
408	56mm 90° Bend	No	4
409	110mm to 56mm reducer	No	4
410	110 mm Complete stop end with screwed end	No	6
411	110 mm Straight connecting pipe for wall hung WC	No	2
412	110mm Pan connector	No	2
413	Air vent cowl 110mm	No	4
414	110mm Long radius Bend	No	6
415	56mm P Traps	No	4
416	connecting 110mm pipes to existing main pipes	No	6
417	110mm Juctions	No	6
418	Gulley grate and frame 190mm	No	2

Domestic Water Supply**Carried to Collection**

R

Bill No. 19
Mechanical Work (Provisional)
GMTA Quantity Surveyors

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

419	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	30
420	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	16
421	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	10
422	28mm Diameter HDPE pipes underground	m	6

Extra over on piping for

423	15mm Tee	No	4
424	20mm Tee	No	8
425	20mm/15mm Reducing Tee	No	5
426	15mm Bend	No	12
427	20mm Bend	No	3
428	28mm Bend	No	3

Brassware including all adaptors, etc.

429	28mm Ball valve	No	2
430	15mm angle valve	No	6
431	15mm flexible connector	m	12
432	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1

Carried to Collection**R**

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Mechanical Work (Provisional)
GMTA Quantity Surveyors

BLOCK H**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

433	56mm pipe fixed vertically and horizontally, chased in wall	m	4
434	110mm pipe fixed vertically and horizontally	m	6
435	110mm pipe buried underground	m	30
<u>Extra over on piping for:</u>			
436	56mm 90° Bend	No	4
437	110mm to 56mm reducer	No	4
438	110 mm Straight connecting pipe for wall hung WC	No	2
439	110mm Pan connector	No	2
440	Air vent cowl 110mm	No	4
441	110mm Long radius Bend	No	6
442	56mm P Traps	No	4
443	connecting 110mm pipes to existing main pipes	No	6
444	110mm Junctions	No	6
445	Gulley grate and frame 190mm	No	2

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Mechanical Work (Provisional)
GMTA Quantity Surveyors

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

446	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	30
447	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	18
448	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	10
449	28mm Diameter HDPE pipes underground	m	6

Extra over on piping for

450	15mm Tee	No	4
451	20mm Tee	No	8
452	20mm/15mm Reducing Tee	No	5
453	15mm Bend	No	12
454	20mm Bend	No	3
455	28mm Bend	No	3

Brassware including all adaptors, etc.

456	28mm Ball valve	No	2
457	15mm angle valve	No	6
458	15mm flexible connector	m	12
459	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1

Carried to Collection

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Bill No. 19
Mechanical Work (Provisional)
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BLOCK J**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

460	56mm pipe fixed vertically and horizontally, chased in wall	m	8
461	110mm pipe fixed vertically and horizontally	m	10
462	110mm pipe buried underground	m	35
<u>Extra over on piping for:</u>			
463	56mm 90° Bend	No	8
464	110mm to 56mm reducer	No	5
465	110 mm Complete stop end with screwed end	No	10
466	110 mm Straight connecting pipe for wall hung WC	No	5
467	110mm Pan connector	No	5
468	Air vent cowl 110mm	No	8
469	110mm Long radius Bend	No	10
470	56mm P Traps	No	6
471	connecting 110mm pipes to existing main pipes	No	10
472	110mm Juctions	No	10
473	Gulley grate and frame 190mm	No	4

Domestic Water Supply**Carried to Collection**

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Mechanical Work (Provisional)
GMTA Quantity Surveyors

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

474	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	45
475	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	26
476	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	8
477	28mm Diameter HDPE pipes underground	m	4

Extra over on piping for

478	15mm Tee	No	10
479	20mm Tee	No	6
480	20mm/15mm Reducing Tee	No	4
481	15mm Bend	No	33
482	20mm Bend	No	4
483	28mm Bend	No	3

Brassware including all adaptors, etc.

484	28mm Ball valve	No	2
485	15mm angle valve	No	11
486	15mm flexible connector	m	22
487	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1

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Bill No. 19
Mechanical Work (Provisional)
GMTA Quantity Surveyors

BLOCK M**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

488	56mm pipe fixed vertically and horizontally, chased in wall	m	15
489	110mm pipe fixed vertically and horizontally	m	17
490	110mm pipe buried underground	m	80
<u>Extra over on piping for:</u>			
491	56mm 90° Bend	No	14
492	110mm to 56mm reducer	No	8
493	110 mm Straight connecting pipe for wall hung WC	No	10
494	110mm Pan connector	No	10
495	Air vent cowl 110mm	No	10
496	110mm Long radius Bend	No	10
497	56mm P Traps	No	12
498	connecting 110mm pipes to existing main pipes	No	16
499	110mm Juctions	No	16
500	Gulley grate and frame 190mm	No	12

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Bill No. 19
Mechanical Work (Provisional)
GMTA Quantity Surveyors

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

501	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	85
502	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	16
503	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	18
504	28mm Diameter HDPE pipes underground	m	8

Extra over on piping for

505	15mm Tee	No	9
506	20mm Tee	No	13
507	20mm/15mm Reducing Tee	No	8
508	15mm Bend	No	33
509	20mm Bend	No	20
510	28mm Bend	No	5

Brassware including all adaptors, etc.

511	28mm Ball valve	No	4
512	15mm angle valve	No	22
513	15mm flexible connector	m	44
514	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	2

Carried to Collection**R**

Bill No. 19
Mechanical Work (Provisional)
GMTA Quantity Surveyors

BLOCK P**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

515	56mm pipe fixed vertically and horizontally, chased in wall	m	15
516	110mm pipe fixed vertically and horizontally	m	12
517	110mm pipe buried underground	m	88
<u>Extra over on piping for:</u>			
518	56mm 90° Bend	No	15
519	110mm to 56mm reducer	No	12
520	110 mm Complete stop end with screwed end	No	10
521	110 mm Straight connecting pipe for wall hung WC	No	6
522	110mm Pan connector	No	6
523	Air vent cowl 110mm	No	9
524	110mm Long radius Bend	No	18
525	56mm P Traps	No	14
526	connecting 110mm pipes to existing main pipes	No	17
527	110mm Juctions	No	17
528	Gulley grate and frame 190mm	No	8

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Mechanical Work (Provisional)
GMTA Quantity Surveyors

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

529	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	78
530	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	135
531	20mm Diameter hot water pipe insulation	m	70
532	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	28
533	28mm Diameter HDPE pipes underground	m	10

Extra over on piping for

534	15mm Tee	No	80
535	20mm Tee	No	35
536	20mm/15mm Reducing Tee	No	45
537	15mm Bend	No	96
538	20mm Bend	No	60
539	28mm Bend	No	14

Brassware including all adaptors, etc.

540	28mm Ball valve	No	4
541	15mm angle valve	No	40
542	15mm flexible connector	m	55

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543	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	2		
544	200l geyser (wall mounted) c/w 2,5kl backup electric element and drip tray	No	2		
545	2,5kw heat pump c/w circulation pump	No	2		
546	Connecting the heat pump and geyser	No	2		
547	Electrical connection of the hot water generation system	No	2		
548	Commissioning the hot water system	No	2		
<u>Wet Services</u>					
<u>BLOCK Q</u>					
<u>Drainage</u>					
<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>					
549	56mm pipe fixed vertically and horizontally, chased in wall	m	100		
550	110mm pipe fixed vertically and horizontally	m	120		
551	110mm pipe buried underground	m	405		
<u>Extra over on piping for:</u>					
552	56mm 90° Bend	No	180		
553	110mm to 56mm reducer	No	90		
554	110 mm Complete stop end with screwed end	No	60		
555	110 mm Straight connecting pipe for wall hung WC	No	36		
556	110mm Pan connector	No	36		
557	Air vent cowl 110mm	No	36		
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558	110mm Long radius Bend	No	90		
559	56mm P Traps	No	60		
560	connecting 110mm pipes to existing main pipes	No	39		
561	110mm Juctions	No	96		
562	Gulley grate and frame 190mm	No	30		
563	110mm rodding eye	No	6		
<u>Domestic Water Supply</u>					
<u>Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications</u>					
All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete					
564	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	750		
565	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	405		
566	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	450		
567	35mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	540		
568	35mm Diameter hot water pipe insulation	m	450		
569	50mm Diameter HDPE pipes underground	m	90		
<u>Extra over on piping for</u>					
570	15mm Tee	No	360		
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571	20mm Tee	No	240		
572	20mm/15mm Reducing Tee	No	60		
573	15mm Bend	No	240		
574	20mm Bend	No	120		
575	28mm Bend	No	54		
576	35mm Bend	No	75		
577	50mm Bend	No	30		
	<u>Brassware including all adaptors, etc.</u>				
578	50mm Ball valve	No	6		
579	15mm angle valve	No	105		
580	15mm flexible connector	m	180		
581	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	3		
582	Hot water generation system by Specialist		Item		900 000.00
583	Allow for markup and attendency		%		
	<u>Wet Services</u>				
	<u>BLOCK R</u>				
	<u>Drainage</u>				
	<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets,fusion welded joints in the running length</u>				
584	56mm pipe fixed vertically and horizontally, chased in wall	m	35		
585	110mm pipe fixed vertically and horizontally	m	20		
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586	110mm pipe buried underground	m	220
<u>Extra over on piping for:</u>			
587	56mm 90° Bend	No	30
588	110mm to 56mm reducer	No	30
589	110 mm Complete stop end with screwed end	No	30
590	110 mm Straight connecting pipe for wall hung WC	No	12
591	110mm Pan connector	No	12
592	Air vent cowl 110mm	No	15
593	110mm Long radius Bend	No	40
594	56mm P Traps	No	30
595	connecting 110mm pipes to existing main pipes	No	20
596	110mm Juctions	No	45
597	Gulley grate and frame 190mm	No	10
598	110mm stainless steel floor drains	No	9
599	110mm rodding eye	No	3
600	7l/s industrial grease trap. Stainless steel 3 compactments complete with baskets	No	1

Domestic Water Supply

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

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601	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	220
602	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	85
603	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	160
604	35mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	120
605	35mm Diameter hot water pipe insulation	m	120
606	50mm Diameter HDPE pipes underground	m	50
<u>Extra over on piping for</u>			
607	15mm Tee	No	150
608	20mm Tee	No	80
609	20mm/15mm Reducing Tee	No	50
610	15mm Bend	No	150
611	20mm Bend	No	100
612	28mm Bend	No	40
613	35mm Bend	No	15
614	50mm Bend	No	10
<u>Brassware including all adaptors, etc.</u>			
615	50mm Ball valve	No	8
616	15mm angle valve	No	50
617	15mm flexible connector	m	120
618	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	3
619	Hot water generation system by Specialist	Item	300 000.00
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620	Allow for markup and attendance		%		
	<u>Wet Services</u>				
	<u>BLOCK S</u>				
	<u>Drainage</u>				
	<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>				
621	56mm pipe fixed vertically and horizontally, chased in wall	m	35		
622	110mm pipe fixed vertically and horizontally	m	25		
623	110mm pipe buried underground	m	120		
	<u>Extra over on piping for:</u>				
624	56mm 90° Bend	No	20		
625	110mm to 56mm reducer	No	14		
626	110 mm Straight connecting pipe for wall hung WC	No	3		
627	110mm Pan connector	No	3		
628	Air vent cowl 110mm	No	8		
629	110mm Long radius Bend	No	20		
630	56mm P Traps	No	18		
631	connecting 110mm pipes to existing main pipes	No	2		
632	110mm Juctions	No	20		
633	Gulley grate and frame 190mm	No	5		
634	110mm stainless steel floor drains	No	2		
635	110mm rodding eye	No	4		
	Carried to Collection			R	
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Domestic Water Supply**Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications**

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

636	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	150
637	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	70
638	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	90
639	35mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	35
640	28mm Diameter hot water pipe insulation	m	55
641	35mm Diameter HDPE pipes underground	m	25

Extra over on piping for

642	15mm Tee	No	45
643	20mm Tee	No	26
644	20mm/15mm Reducing Tee	No	15
645	15mm Bend	No	120
646	20mm Bend	No	50
647	28mm Bend	No	10
648	35mm Bend	No	8

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Brassware including all adaptors, etc.

649	35mm Ball valve	No	2		
650	15mm angle valve	No	45		
651	15mm flexible connector	m	56		
652	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	1		
653	Hot water generation system by Specialist		Item		300 000.00
654	Allow for markup and attendency		%		

Wet Services**BLOCK T****Drainage****uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length**

655	56mm pipe fixed vertically and horizontally, chased in wall	m	20		
656	110mm pipe fixed vertically and horizontally	m	18		
657	110mm pipe buried underground	m	100		

Extra over on piping for:

658	56mm 90° Bend	No	25		
659	110mm to 56mm reducer	No	15		
660	110 mm Straight connecting pipe for wall hung WC	No	6		
661	110mm Pan connector	No	6		
662	Air vent cowl 110mm	No	9		

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663	110mm Long radius Bend	No	20
664	56mm P Traps	No	14
665	connecting 110mm pipes to existing main pipes	No	17
666	110mm Juctions	No	17
667	Gulley grate and frame 190mm	No	8

Domestic Water Supply

Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

668	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	85
669	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	135
670	20mm Diameter hot water pipe insulation	m	70
671	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	30
672	28mm Diameter HDPE pipes underground	m	15

Extra over on piping for

673	15mm Tee	No	80
674	20mm Tee	No	35
675	20mm/15mm Reducing Tee	No	45
676	15mm Bend	No	96

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677	20mm Bend	No	60		
678	28mm Bend	No	14		
	<u>Brassware including all adaptors, etc.</u>				
679	28mm Ball valve	No	4		
680	15mm angle valve	No	40		
681	15mm flexible connector	m	55		
682	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	2		
683	200l geyser (wall mounted) c/w 2,5kl backup electric element and drip tray	No	2		
684	2,5kw heat pump c/w circulation pump	No	2		
685	Connecting the heat pump and geyser	No	2		
686	Electrical connection of the hot water generation system	No	2		
687	Commissioning the hot water system	No	2		
	<u>Wet Services</u>				
	<u>BLOCK U</u>				
	<u>Drainage</u>				
	<u>uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length</u>				
688	56mm pipe fixed vertically and horizontally, chased in wall	m	90		
689	110mm pipe fixed vertically and horizontally	m	120		
690	110mm pipe buried underground	m	405		
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Extra over on piping for:

691	56mm 90° Bend	No	180
692	110mm to 56mm reducer	No	90
693	110 mm Complete stop end with screwed end	No	12
694	110 mm Straight connecting pipe for wall hung WC	No	36
695	110mm Pan connector	No	36
696	Air vent cowl 110mm	No	36
697	110mm Long radius Bend	No	90
698	56mm P Traps	No	60
699	connecting 110mm pipes to existing main pipes	No	40
700	110mm Juctions	No	96
701	Gulley grate and frame 190mm	No	30
702	110mm rodding eye	No	3

Domestic Water Supply**Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications**

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

703	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	750
704	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	405

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705	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	450
706	35mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	540
707	35mm Diameter hot water pipe insulation	m	450
708	50mm Diameter HDPE pipes underground	m	90
<u>Extra over on piping for</u>			
709	15mm Tee	No	360
710	20mm Tee	No	240
711	20mm/15mm Reducing Tee	No	60
712	15mm Bend	No	240
713	20mm Bend	No	120
714	28mm Bend	No	60
715	35mm Bend	No	75
716	50mm Bend	No	30
<u>Brassware including all adaptors, etc.</u>			
717	50mm Ball valve	No	6
718	15mm angle valve	No	105
719	15mm flexible connector	m	180
720	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	3
721	Hot water generation system by Specialist	Item	900 000.00
722	Allow for markup and attendency	%	
<u>Wet Services</u>			
Carried to Collection			
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BLOCK V**Drainage**

uPVC pipe installed in accordance with the Manufacturers Specifications with and including ring seal sockets, fusion welded joints in the running length

723	56mm pipe fixed vertically and horizontally, chased in wall	m	16
724	56mm pipe fixed to soffit	m	10
725	110mm pipe buried underground	m	90
<u>Extra over on piping for:</u>			
726	56mm 90° Bend	No	16
727	110mm to 56mm reducer	No	16
728	110 mm Straight connecting pipe for wall hung WC	No	10
729	110mm Pan connector	No	10
730	Air vent cowl 110mm	No	10
731	110mm Long radius Bend	No	16
732	56mm P Traps	No	12
733	connecting 110mm pipes to existing main pipes	No	16
734	110mm Junctions	No	16
735	Gulley grate and frame 190mm	No	6

Domestic Water Supply**Carried to Collection**

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Geberit MEPLA multi layer pipes with compression type joints with MEPLA fittings installed in accordance with the manufacturer's specifications

All surface mounted pipes shall be deemed to include all labour bends, approved expansion brackets, threaded rods, nuts, washers, anchors, brackets and hangers, straight connectors and brackets and hangers, straight connectors and fixing into position including drilling of holes in concrete or brickwork complete

736	15mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	70
737	20mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	35
738	28mm Diameter pipes, fixed to ceilings or roofs, columns or slabs, or chased in walls etc.	m	18
739	28mm Diameter HDPE pipes underground	m	8
740	Extra over on piping for 15mm Tee	No	15
741	20mm Tee	No	20
742	20mm/15mm Reducing Tee	No	19
743	15mm Bend	No	70
744	20mm Bend	No	18
745	28mm Bend	No	8
746	Brassware including all adaptors, etc. 28mm Ball valve	No	2
747	15mm angle valve	No	22
748	15mm flexible connector	m	46
749	Cut existing 50mm underground HDPE pipe & tie-in new connection	No	2

Wet Services - Provisional Sums

Carried to Collection

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PROVISIONAL SUMS

Allow a provisional contingency for the addition/modification of fixtures during design development etc. to be used as directed by the Principal Agent and/or Engineer and to be deducted in whole or in part if not required.

750	Allow a provisional for modifications & connections to existing drainage system etc. to be used as directed by the Principal Agent and to be deducted in whole or in part if not required.	Item	90 000.00
751	Allow a provisional sum of modifications & connections to existing water supply & fire water systems etc. to be used as directed by the Principal Agent and to be deducted in whole or in part if not required.	Item	100 000.00
752	Allow for profit & attendance of the above items	Item	

KITCHEN EQUIPMENT**PRELIMINARIES AND GENERAL****PRELIMINARIES**

The subcontract to be entered into between the Principal Contractor and the nominated/selected sub-contractor shall conform to and incorporate the Main Contract Agreement.

Preliminary and General Conditions of the Main Contract are not included in the Specification Document and shall be part of this Contract

The tenderer is referred to the above mentioned documents for the full intent and meaning of each clause thereof

If the tenderer wishes to place value to any of the clauses detailed in the Preliminaries he/she should do so hereunder.

PRELIMINARIES AND GENERAL CONDITIONS PERTAINING TO THIS CONTRACT

753	Clearance of Rubbish	Item	
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754	Management and Supervision		Item		
755	Site Establishment & Clearance		Item		
756	Preparation of Operating and Maintenance Manuals		Item		
757	As-Built Drawings		Item		
758	12 Months Guarantee and Maintenance		Item		
759	Safety File		Item		
760	Delivery and Travelling to site		Item		
761	Installation and Commissioning of the equipment		Item		
762	Any additional items of Preliminary nature that the Tenderer may wish to add to comply with requirements of specification and/or Bill of Quantities		Item		
<u>RECEIVING</u>					
763	Wash Hand Basin	No	2		
764	Scale 300kg/100g Electronic	No	1		
765	SWB 1200/650mm Stainless steel Table c/w rear splash back- 1200 x 650 x 910mm high	No	1		
766	Galvanised undershelf solid - 1200mm long	No	1		
<u>VEGETABLE STORE</u>					
767	DRS-360 Cambro Dunnage Rack	No	2		
768	VR-18 1830 x 560 x 1600mm high Epoxy Coated	No	3		
<u>DRY STORE SHELVING</u>					
769	DRS-360 Cambro Dunnage Rack	No	4		
770	GS8 (1070 x 460mm) Galavanised shelf	No	16		
771	GS11 (1220 x 460mm) Galavanised shelf	No	24		
772	EP14 (1442mm) Epoxy coated end frame	No	13		
Carried to Collection				R	
Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors					

CROCKERY STORE SHELving

773	SS8 (910 x 460mm) Stainless steel shelf	No	4
774	S11(1070 x 460mm) Stainless steel shelf	No	20
775	SS14 1442mm high stainless steel end frame	No	9

VEGETABLE PREPARATION AREA

776	Potato Peeler Anvil PPA0012 complete peeltrap and Stand - 0,375kW Single phase	No	1
777	VPS-L 1850/650mm Double Left hand bowl vegetable preparation sink with 150mm rear splash back Dimensions: 1850 x 650 x 910mm high	No	1
778	SWB 1200/650mm Stainless steel Table c/w splash back to rear Dimensions: 1200 x 650 x 910mm high	No	1
779	Galvanised undershelf Solid- 1200mm long SWB 1840/650mm Stainless steel Table c/w rear 150mm splash back Dimension: 1840 x 650 x 910mm high	No	1
780	Galvanised under shelf 1840mm long SWB 1650/650mm Stainless steel Table c/w rear 150mm splash back Dimensions: 1650 x 650 x 910mm high	No	2
781	Galavanised under shelf Solid - 1650mm long	No	1

GENERAL PREPARATION AREA

782	Stainless steel Table c/w rear 150mm splash back Dimensions: 1400 x 650 x 910mm	No	1
783	Galvanised Solid under shelf 1400mm long	No	1
784	Double door Upright Chiller	No	1
785	Wash Hand Basin	No	1
786	Fridge Pizza Top QUB6PZTS/C 178 x 65 x 90cm high c/w splash back to rear	No	1
787	Stainless steel Plain Top Table Dimensions: 1650 x 750 x 910mm	No	2

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MEAT PREPARATION AREA

788	VCO Wash Hand Basin	No	1
789	Double Centre Bowl preparation sink c/w 150mm splash back to rear Dimensions: 1850 x 650 x 910mm high	No	1
790	SWB 1400/650mm Stainless steel Table c/w rear 150mm splash back Dimensions: 1400 x 650 x 910mm	No	1
791	Galvanised Solid under shelf 1400mm long	No	1
792	SWB 1400/650mm Stainless steel Table c/w rear 150mm splash back Dimensions: 1400 x 650 x 910mm	No	1
793	Galvanised Solid under shelf 1400mm long Splash end fitted to one end only	No	1
794	Work Top Refrigerator Mod.QUB6S/C c/w splash back to rear and locks Dimensions: 178 x 65 x 90 cm High	No	1

POT WASH

795	Dump Table Angled 1400 x 620 x 910mm c/w scrape hole and rubber ring	No	1
796	DCBPS 1850/650mm Double Center Bowl Pot sink Dimensions: 1850 x 650 x 910mm high	No	1
797	Stainless steel Table c/w rear 150mm splash back Dimensions: 1200 x 650 x 910mm high	No	1
798	Galvanised Solid under shelf 1200mm long Splash end fitted to one end	No	1
799	Galvanised Tubular under shelf 1050mm long MPR 1200 x 600 x 1450mm High Mobile Galvanised Tubular slats with stainless steel upright	No	1

SCULLERY

800	Dump Table Angled 1400 x 620 x 910mm c/w scrape hole and rubber ring	No	1
801	Basket shelf Flat 1350 x 520mm over the dump table	No	1

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802	Pre-Rinse single bowl Bridging Table 1000 x 620mm	No	1		
803	Pre-Rinse Over spray unit c/w brackets	No	1		
804	Mixer Taps	No	1		
805	Comenda hood Type Dishwasher with an output of 65 racks an hour and wash cycles of 55 - 85 - 120 seconds Dimensions: 625 x 760 x 1460mm high Electrics: 10,5kW, 400V 3phase and Neutral	No	1		
806	Plate Rack Peg Type	No	5		
807	Glass Rack 25 Compartment	No	5		
808	Cutlery Rack Open Flat	No	2		
809	Cup and bowl Rack	No	2		
810	Outlet Table with legs to one end only-1650 x 620mm	No	1		
811	Basket shelf sloping rear mounted-1550mm	No	1		
812	VCO Wash Hand Basin	No	1		
813	MCR6 600 Piece Mobile crockery rack 6 tier Dimensions: 1140 x 610 x 1670mm high	No	1		
<u>COOKING AREA</u>					
814	Rational Combi Master model CM201+E c/w tray rack trolley with provision to accommodate 20x GN1/1 pans and 5x Cooking Mode. Dimensions: 879 x 791 x 1782mm High Electricity: 37kW, 230/400v/3N/50hz	No	1		
815	Wire Grids GN 1/1 325 x 530mm chromium plated	No	20		
816	Trays enameled GN 1/1 325 x 530 x 28mm Deep	No	20		
817	Insert Stainless steel GN1/1 x 55mm Solid	No	10		
818	Insert Stainless steel GN1/1 x 55mm Perforated	No	20		
819	Wash Chemical for Rational CM 201	No	1		
820	Rinse Chemical for Rational CM201	No	1		
Carried to Collection				R	
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821	4 Open Burner Gas Range without an oven Dimensions: 1000 x 850 x 910mm high Gas Rating: 88000kj/HR	No	1		
822	80 Liters Cast Iron Gas Tilting Frying Pan	No	1		
823	225 Litres Oil Jacketed Boiling Pan with Oil Capacity of 60 liters c/w water swivel tap Dimensions: 1009 x 1037 x 1000mm high. Gas Rating: 106 000kj/hrs	No	1		
824	Shell S2X Heat Transfer Oil (20 Liters Container)	No	3		
825	6 Burner Floor standing Griller with half smooth and half ribbed top to the Right hand Dimensions: 915 x 735 x 910mm high Gas Rating: 100,000kj/hrs	No	1		
826	DPF 2/20 Double Pan Deep Fat Fryer 2 x 20 Liters c/w oil receiver - Oil Capacity 2 x 20 liters Dimensions: 1015 x 600 x 915mm high Electrics: 30kW, 230/400v/ 3N/50hz	No	1		
827	Fryer basket 275 x 280 x 130mm Deep	No	4		
828	Fryer basket 394 x 280 x 130mm Deep	No	4		
829	Filter paper (pack of 50)	No	4		
830	Conical Filter Holder	No	2		
831	Chip Storage Table recessed c/w overhead heat lamp Dimensions: 605 x 560 x 915mm high	No	1		
832	Chip Storage Boxes	No	3		
<u>SERVERY AREA</u>					
833	Bain Marie Hot Cupboard 5 Division with provision to acc. 5 x GN 1/1 pans Dimensions: 1785 x 750 x 915mm high Electricity: 5,5kW, 230/400v/3 n / 50hz	No	2		
834	Riser shelf Single with full sneeze glass guard -1785	No	1		
835	Insert GN1/1 x 150mm Stainless steel Solid	No	5		
836	Insert Lid GN1/1 Stainless steel	No	5		
837	Counter unheated 1785 x 750 x 915mm	No	1		
Carried to Collection				R	
Bill No. 19 Mechanical Work (Provisional) GMTA Quantity Surveyors					

838	Fridge worktop model QUB6S/C 1785 x 750 x 915mm 2 & 1/2 door with locks stainless steel	No	1		
839	Riser shelf Single with full sneeze glass guard -1785	No	2		
840	Installation and commissioning the kitchen equipment		Item		
<u>COLDROOM / FREEZER ROOM</u>					
841	Cold Freezer room Combination Overall size 7120 x 3340 x 2400mm high. Cold Room: 4680 x 3340 x 2400mm high, Freezer Room 2440 x 3340 x 2400mm high, Finish: White Chromadek, Insulation: Polystyrene 100mm HD, Doors: 2 x standard hinged door 800, Cold room Floor: None. Freezer room floor: 50mm insulation by subcontractor and 50mm screed by the building contractor	No	1		
<u>COLD ROOM SHELVING</u>					
842	SS8 (910 x 460mm) Stainless steel shelv	No	12		
843	S11(1070 x 460mm) Stainless steel shelf	No	28		
844	S12(1220 x 460mm) Stainless steel shelf	No	15		
845	SS14 1442mm high stainless steel end frame	No	14		
846	DRS-360 Cambro Dunnage Rack	No	4		
<u>FREEZER ROOM SHELVING</u>					
847	SS8 (910 x 460mm) Stainless steel shelf	No	8		
848	S11(1070 x 460mm) Stainless steel shelf	No	20		
849	S11(1220 x 460mm) Stainless steel shelf	No	15		
850	SS14 1442mm high stainless steel end frame	No	10		
851	DRS-360 Cambro Dunnage Rack	No	1		
<u>INSTALLATION AND COMMISSIONING</u>					
852	Installation and commissioning the coldroom/freezer room	No	1		
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LAUNDRY EQUIPMENT

853	Timer Operated Heavy Duty Washing Machines	No	5		
854	Timer Operated Heavy Duty Drying Machines	No	5		
855	Hanging Rails	No	4		
856	Steam Generator Irons	No	4		
857	Heavy Duty Heated Ironing Boards	No	4		
858	Laundry Folding Machines	No	1		
859	Drying Lines (5.5m long 3 lines)	No	8		
860	Installation and commissioning the Laundry Equipment			Item	

LPG SERVICES**PRELIMINARIES**

The subcontract to be entered into between the Principal Contractor and the nominated/selected sub-contractor shall conform to and incorporate the Main Contract Agreement.

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PRELIMINARIES AND GENERAL CONDITIONS PERTAINING TO THIS CONTRACT

861	Clearance of Rubbish			Item	
862	Management and Supervision			Item	
863	Site Establishment & Clearance			Item	
864	Preparation of Operating and Maintenance Manuals			Item	

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865	As-Built Drawings		Item		
866	12 Months Guarantee and Maintenance		Item		
867	Safety File		Item		
868	Delivery and Travelling to site		Item		
869	Installation and Commissioning of the equipment		Item		
870	Any additional items of Preliminary nature that the Tenderer may wish to add to comply with requirements of specification and/or Bill of Quantities		Item		
<u>Block F Multi Purpose Classroom</u>					
<u>LP Gas bottles to come fully charged</u>					
871	Gas bottles (48kg)	No	4		
872	Pipes header complete with selection valves regulators, 4 flexible hoses, regulator	No	1		
873	25mm Solenoid Valves	No	1		
874	20mm Shutoff valves	No	2		
875	Steel Pipe(25mm Schedule 80 Carbon Steel Pipe)	m	43		
876	Steel Pipe(20mm Schedule 80 Carbon Steel Pipe)	m	15		
877	25mm Pipe bends	No	16		
878	20mm Pipe bends	No	10		
879	20mm ball valves	No	7		
880	Steel cage for the bottles	No	1		
<u>Block R Kitchen</u>					
<u>LP Gas bottles to come fully charged</u>					
881	Gas bottles (48kg)	No	4		
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882	Pipes header complete with selection valves regulators, 4 flexible hoses, regulator	No	1		
883	25mm Solenoid Valves	No	1		
884	20mm Shutoff valves	No	2		
885	Steel Pipe(25mm Schedule 80 Carbon Steel Pipe)	m	45		
886	Steel Pipe(20mm Schedule 80 Carbon Steel Pipe)	m	15		
887	25mm Pipe bends	No	12		
888	20mm Pipe bends	No	5		
889	20mm ball valves	No	12		
890	Steel cage for the bottles	No	1		
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