

Supply and Install Geberit HDPE, including all necessary butt welds or electrowelds, brackets and supports

A	40mm dia	m	21
B	50mm dia	m	205
C	63mm dia (Below Ground/slab sewer drainage depth 1m not exceeding 2m. (Excavations and backfilling taken elsewhere.	m	14
D	110mm dia	m	1
E	110mm dia (Below Ground sewer drainage depth 1m not exceeding 2m. (Excavations and backfilling taken elsewhere)	m	144
F	110mm dia (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.) m³	m3	90
	Note excavations depth 1m not exceeding 2m		
G	7mm dia PVC Sleeve	m	41
H	160mm dia uPVC Sleeve	m	31
J	Excavation soft rock	m3	1
K	Excavation hard rock	m3	1
L	Maintain dry trench	m	7

Supply and Install Geberit HDPE Pipe Fittings

M	40mm dia Elbow	No	8
N	40-50mm dia Elbow	No	26
P	50-75mm dia Elbow	No	2
Q	50-50mm dia Elbow	No	66
R	75-75mm dia Elbow	No	7

Carried to Collection

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Sanitary Internal Drainage

R

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A	50-50mm dia Elbow	No	41
B	75-75mm dia Elbow	No	3
C	110-110mm dia Elbow (To form gully traps including WC Top bend to pan connector.)	No	52
D	110-110mm dia Elbow (Include 1 x 40 mm threaded connector with weld on screw cap for bend access taken elsewhere.)	No	31
E	75mm dia Access pipe 90° with round service opening	No	1
F	110mm dia Access pipe 90° with round service opening	No	9
G	75mm dia Threaded connector with screw cap for bend access (Stub Stack without one way vent valve.)	No	1
H	110mm dia Threaded connector with screw cap for bend (Rodding Eyes.)	No	1
J	32-32mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
K	40-40mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
L	50-50mm dia 45° bends	No	176
M	75-75mm dia 45° bends	No	8
N	75-50mm dia Bend	No	1
P	110mm dia Access pipe 90° with round service opening	No	8
Q	50-50mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
R	110mm dia Multi step SSN coupling	No	5
S	50-50-50mm dia Branch 45°	No	8

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A	160mm dia (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.) Note excavations depth 1m not exceeding 2m	No	1
B	110mm dia PVC Sleeve (Building A.)	No	1
C	160mm dia uPVC Sleeve (Building A.)	No	1
D	200mm dia uPVC Sleeve (Building A.)	No	1
E	110-110mm dia Elbow (To form gully traps.)	No	1
F	110-110mm dia Elbow (Include 1 x 56MM threaded connector with weld on screw cap for bend access taken elsewhere.)	No	1
G	75mm dia Access pipe 90° with round service opening	No	1
H	110mm diameter access pipe 90° with round service opening.	No	1
J	75mm dia Threaded connector with screw cap for bend access (Stub Stack without one way vent valve.)	No	1
K	110mm dia Threaded connector with screw cap for bend (Rodding Eyes.)	No	1
L	32-32mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
M	40-40mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
N	50-50mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
P	75-75mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
Q	75-50mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
R	110-110mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1

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N1

A	50-50-50mm dia Branch 45°	No	1
B	75-75-50mm dia Branch 45°	No	3
C	110-110-50mm dia Branch 45°	No	2
D	160mm dia (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.) Note excavations depth 1m not exceeding 2m. (m³)	No	5
E	63-50mm dia Elbow	No	1
F	110-110-110mm dia Branch 45°	No	12
G	50mm dia Weld-on cap	No	25
H	50mm - 50mm dia Rubber collar connection for traps	No	25
J	110mm dia - Toilet pan connector	No	31
K	50-40mm dia adapter to Male Thread	No	26
L	110mm dia Open Air Vent Cowl	No	13
M	110mm dia Open Air Vent Flashing Galvanized Iron	No	13
N	110mm dia HDPE to Cast Iron adaptor	No	1
P	110mm dia HDPE to Cast Iron adaptor	No	1
Q	50-50mm dia adapter to Male Thread	No	28
R	63-50mm dia Reducer	No	1
S	110-50-110mm dia Branch 45°	No	1
T	63-63mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
U	63-50mm dia Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	No	1
V	63-63-50mm dia Branch 45°	No	1

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A	63-50mm dia Elbow	No	1
<u>Supply and Install Geberit Electroweld couplings</u>			
B	50mm dia Electroweld coupling	No	36
C	75mm dia Electroweld coupling	No	7
D	110mm dia Electroweld coupling	No	28
<u>Supply and Install Geberit expansion sockets</u>			
E	110mm dia with ring seal	No	8
<u>BURIED SEWER DRAINAGE</u>			
F	110mm Diameter Within Building Foot Print Terminate 1 Meter From Building. Sewer Drain By Civil Contractor.)	m	1
G	Extra over for selected earth filling from excavations in filling around pipes in ground to depth of 300mm above pipes, for supplying and carting on imported filling to the approval of the Engineer not exceeding 2000mm deep	m3	1
H	Extra over for excavation in soft material for pipe trenches, chambers, etc less than 2000mm deep	m3	1
J	Extra over for carting away to dumping on site to be located by the contractor less than 2000mm deep	m3	1
K	Connections to Civil Infrastructure	Item	

PLUMBING FIXTURES

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Undercounter Internal Grease Trap.

- A Supply deliver and install grease trap, of the ALLTRAP ENGINEERING series, AT 700 2L/s or other approved, in order to separate low viscosity mineral liquids (oil and fat) that are not soluble in water. The unit shall be manufactured from high-grade austenitic stainless steel, chemically de-scaled (acid pickled) in order to enhance the natural corrosion resistance. All surfaces shall be polished and have a smooth finish for easy cleaning, minimum dirt collection and high flow rates. The unit shall be equipped with a large solid strainer basket with bottom draining cutouts covered with the fine S/S mesh, easily removable cover and basket for cleaning with the discharge pipe fully accessible once the drain has been dismantled, built-in drain/suction valve. the unit is to be sealed water tight. The flow Rate is 2 l/sec. The unit dimensions are (W)x(H)x(D) = 700mmx400mmx450mm with horizontal Inlet & Outlet as 100mm diameter

No 1

External Oil Separator

- B Supply, deliver and install grease trap, of the ALLTRAP ENGINEERING series OILSEP 3 or similar approved, c/w all fittings The flow Rate is 3 l/sec. The material must be stainless steel 304. The unit dimensions are (W)x(H)x(D) = 1130mmx1050mmx1000mm with horizontal Inlet & Outlet as 100mm diameter

No 1

- C "HERBISH" or similar approved HBBW 200V Bin Wash Floor Drain 400mm x 400mm vert outlet 110mm

No 6

- D "HERBISH" Green drain waterless trap 110mm or similar approved

No 6

- E 110mm Stainless steel multi step SSN coupling

No 12

- F 110mm Plain bend 45°

No 55

- G "HERBISH" 110mm Stainless steel floor drain 180° vertical outlet nil inlet including dry trap back flow arrestor

No 2

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TESTING

- A Provide all necessary apparatus, water, etc for and test the whole of soil drainage system to the satisfaction of the Engineer and Municipality, replace defective work free of charge and leave perfect

Item

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SECTION SUMMARY - SECTION 8 - DOMESTIC WATER & INTERNAL DRAIN

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Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>ELECTRICAL WORKS</u>			
	<u>BILL 1</u>			
	<u>EARTHING AND LIGHTNING PROTECTION</u>			
	NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3			
	<i>(CPAP Work Group No. 160 unless otherwise stated)</i>			
	This Bill of Quantities have been drawn up in accordance with the provisions of the Model Bill of Quantities for Electrical Work, published by the Association of South African Quantity Surveyors (July 1994).			
	<u>AIR TERMINATION SYSTEM</u>			
	<u>The air termination system will be installed on the upper most sections of the building. A series of conductors and masts will be installed in order to intercept the lightning strike and prevent damage to the building.</u>			
A	Supply and install 8mm aluminium round (DEHN 840018) secured in holders. Aluminium to be tested and certified in accordance with SANS 62561	m	40	
B	Supply and install conductor holder every 1m (DEHN 207109) (or similar approved). Material to be certified in terms of SANS 62561.	No	40	
C	Supply and install clamp for connections between members (DEHN 390061) (or similar approved). Joint to be certified in terms of SANS 62561.	No	10	
D	Supply and install 1m air termination mast (DEHN 105071) (or similar approved). Material to be certified in terms of SANS 62561.	No	4	
	Carried to Collection			
	Section No. 9			
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	Earthing and Lightning Protection			
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				M
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A	Supply and install bracket for 1m mast. (DEHN 377006) (or similar approved). Material to be certified in terms of SANS 62561.	No	4
B	Supply and install clamp for connections to sink roof (DEHN 377100) (or similar approved). Material to be certified in terms of SANS 62561.	No	4

EARTHING

Earth Electrode and Test Points

The Lightning Protection System will make use of a Type A earth electrode which will be installed 500mm below FGL and 1m away from the perimeter of the building.

C	Supply and install SABS A Grade 1,5m Earth Electrode.	No	40
D	Supply and install clamp (DEHN 459119) (or similar approved) for connection of 50mm ² BCEW to earth spike.	No	40
E	Supply and install 50mm ² ICEW for connection from test box and earth electrode	m	80
F	Supply and install DEHN (or similar approved) 556125 Anti-corrosion tape around clamp between spike and copper earth wire	m	40
G	Excavation 500mm deep in soft pickable soil	m	40
H	Backfill trench	m	40

DOWN CONDUCTOR SYSTEM

Down conductors

Dedicated down conductors will be installed within PVC conduit within the brickwork

J	Supply and install 20mm PVC conduit within brickwork from roof level to ground level with accessories	m	120
K	Supply and install test box with cover plate flush with the brickwork	No	40

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Bill No. 1
Earthing and Lightning Protection

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A	Supply and install DEHN 840018 (or similar approved) - 8mm solid round Aluminium wire within pvc conduit. Material to be certified in terms of SANS 62561.	m	120
B	Supply and install disconnection clamp (DEHN 459129) (or similar approved) within test box for connection between DCS and ETS. Material to be certified in terms of SANS 62561.	No	40
C	Supply and install clamp (DEHN 377100) (or similar approved) to connect to steel roof sheeting. Material to be certified in terms of SANS 62561.	No	40
D	Supply and install test plates	No	40
<u>EARTH MAT</u>			
<u>Earth mats will be manufactured from 70mm² BCEW and have a earth resistance below 1 Ω. Earth mats should be CAD welded.</u>			
E	Supply and install of LV earth mat	No	1
F	Supply and install (DEHN 472227) (or similar approved) copper earth bar.	No	1
G	Supply and install 70mm ² insulated copper cable for connection between fixed terminal and earth bar.	m	20
H	Supply and install label	No	1
<u>PRELIMINARY AND GENERAL</u>			
J	Safety File	No	1
K	Fixed costs		Item
L	Handover File	No	1
M	Testing & Commissioning	No	1
<u>SERVICES</u>			
N	Risk Assessment as per SANS 62305-2	No	1
P	Soil Resistivity Test		Item

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A Earth mat Design
B As Built Drawing

Item
Item

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Earthing and Lightning Protection

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Earthing and Lightning Protection

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Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>ELECTRICAL WORKS</u>			
	<u>BILL 2</u>			
	<u>LOW VOLTAGE DISTRIBUTION</u>			
	NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3			
	<u>(CPAP Work Group No. 160 unless otherwise stated)</u>			
	This Bill of Quantities have been drawn up in accordance with the provisions of the Model Bill of Quantities for Electrical Work, published by the Association of South African Quantity Surveyors (July 1994).			
	<u>DISTRIBUTION BOARDS</u>			
	<u>Supply and installation of Main / Sub Distribution Power Switchboards according to SANS regulations</u>			
A	ESKOM DB- 3ø distribution switchboard with Architrave frame, feeding top/bottom, recessed mounted, white colour.	No	1	
B	DB- KIOSK -(Normal + Emergency) 3ø distribution switchboard with Architrave frame, feeding top/bottom, surface mounted floor standing	No	1	
C	DB -MAIN - (Normal + Emergency) SUB 3ø distribution switchboard with Architrave frame,feeding top/bottom, surface mounted floor standing	No	1	
D	DB CKB - KITCHEN:(Normal + Emergency) SUB 2ø distribution switchboard with Architrave frame, feeding top/bottom, recessed mounted, white colour.	No	1	
E	DB - CELL - CELL BLOCK : (Normal + Emergency) SUB 3ø distribution switchboard with Architrave frame, feeding top/bottom, recessed mounted, white colour.	No	1	
	Carried to Collection			R
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	Low Voltage Distribution			

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A	DB D- BLOCK D: (Normal + Emergency) SUB 3ø distribution switchboard with Architrave frame, feeding top/bottom, surface mounted floor standing	No	1
B	DB BU SLD - BACHELORS UNIT: SUB 2ø distribution switchboard with Architrave frame, feeding top/bottom, recessed mounted, white colour.	No	6
C	DB- OB-OUT BUILDING : SUB 2ø distribution switchboard with Architrave frame, feeding top/bottom, Surface mounted, white colour.	No	1
D	DB HU SLD- HOUSING UNIT: SUB 2ø distribution switchboard with Architrave frame, feeding top/bottom, Surface mounted, white colour.	No	3
E	DB PR- PUMP ROOM: (Emergency) SUB 3ø distribution switchboard with Architrave frame, feeding top/bottom, Surface mounted, white colour.	No	1

CABLES

Supply, installation, testing and commissioning of Multicore PVC insulated PVC SWA PVC sheathed 600/1000 V cable with copper conductors manufactured to South African regulations

4mm² x 4 core cable installed in sleeve/ceiling/cable ladder.

F	Supply	m	339
G	Install	m	339
	<u>10mm² x 4 core cable installed in sleeve/ceiling/cable ladder.</u>		
H	Supply	m	164
J	Install	m	164
	<u>10mm² x 3 core cable installed in sleeve/ceiling/cable ladder.</u>		
K	Supply	m	222
L	Install	m	222

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Bill No. 2
Low Voltage Distribution

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<u>16mm² x 4 core cable installed in sleeve/ceiling/cable ladder.</u>			
A	Supply	m	74
B	Install	m	74
<u>50mm² x 4 core cable installed in sleeve/ceiling/cable ladder.</u>			
C	Supply	m	61
D	Install	m	61
<u>EARTH CONTINUITY CONDUCTORS</u>			
<u>Bare stranded copper earth wire strapped to cables (terminations elsewhere measured).</u>			
<u>1.5mm² BCEW</u>			
E	Supply	m	339
F	Install	m	339
<u>6mm² BCEW</u>			
G	Supply	m	386
H	Install	m	386
<u>10mm² BCEW</u>			
J	Supply	m	74
K	Install	m	74
<u>25mm² BCEW</u>			
L	Supply	m	61
M	Install	m	61

CABLE TERMINATIONS

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Cable terminations complete including glands, shrouds, lugs, connections and commissioning.

4mm² x 4 core

A	Supply	No	4
---	--------	----	---

B	Install	No	4
---	---------	----	---

6mm² x 4 core

C	Supply	No	34
---	--------	----	----

D	Install	No	34
---	---------	----	----

10mm² x 4 core

E	Supply	No	2
---	--------	----	---

F	Install	No	2
---	---------	----	---

25mm² x 4 core

G	Supply	No	6
---	--------	----	---

H	Install	No	6
---	---------	----	---

Sleeves/Cable Ladders / Power Skirting

TRAYS

CABLE TRAY (150mm medium duty) DATA

J	Supply	m	70
---	--------	---	----

K	Install	m	70
---	---------	---	----

CABLE TRAY (300mm medium duty) ELECTRICAL

L	Supply	m	90
---	--------	---	----

M	Install	m	90
---	---------	---	----

P9000 - Galvanised Electrical

N	Supply	m	143
---	--------	---	-----

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A	Install	m	143
	<u>P9000 - Channel Galvanized Data</u>		
B	Supply	m	85
C	Install	m	85
	<u>110 mm Electrical Sleeve</u>		
D	Supply	m	170
E	Install	m	170
	<u>110 mm Sleeves Data</u>		
F	Supply	m	220
G	Install	m	220
	<u>32 mm Electrical Conduit</u>		
H	Supply	m	48
J	Install	m	48
	<u>50 mm Electrical Sleeve</u>		
K	Supply	m	100
L	Install	m	100
	<u>50 mm Data Sleeve</u>		
M	Supply	m	58
N	Install	m	58
	<u>EARTHING</u>		
P	Earthing of the complete electrical installation according to the SANS 10142 regulations.		Item

Carried to Collection

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Bill No. 2
Low Voltage Distribution

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TESTING AND COMMISSIONING

- A Test and commissioning of the complete low voltage installation.

Item

Eskom Application

- B Allow the sum of R 617 000-00 (Six Hundred and Seventeen Thousand Rand) for Eskom Application

Item

617 000.00

- C Add for profit

Item

- D Allow for attendance

Item

Access Control

- E PC sum for CCTV & Access control

Item

319 800.00

HVAC Cabling

- F PC Sum for HVAC cabling to all units

Item

100 000.00

GENERATOR

- G A three phase 400V outdoor backup diesel generator with sound attenuation canopy will be provided. The generator will comply with the following provisional specifications:

Rating

70kVA

Voltage

400V - 3 Phase

Power Factor

0.8

Enclosure

Total enclosed with silent canopy

Fuel Tank

Base Mounted with 24-26 hours capacity (load dependant)

Controller

Deep Sea with GSM reporting module

Additional

12 Months service and maintenance agreement

No

1

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Low Voltage Distribution

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Low Voltage Distribution

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Section No. 9
Bill No. 3
Internal SAPS

Press in type PVC gland for Flat twin & Earth
Cable/50mm dia round boxes.

SLEEVES/ CABLE TRAY/ POWER SKIRTING

Power Trunking

A	Supply	m	128
B	Install	m	128

CONDUIT & ACCESSORIES

20mm dia PVC Conduit chased into brickwall and in
ceiling void including bending, threading, jointing, short
lengths, draw boxes, couplings, bends, tees and
saddles.

C	Supply	m	2 792
D	Install	m	3 816

APPLIANCES

ELECTRICAL DISTRIBUTION BOARD

E	Supply	No	18
F	Install	No	18

**16A SWITCHED SOCKET OUTLET SINGLE PIN
WEATHER PROOF**

G	Supply	No	1
H	Install	No	1

3-PHASE POWER POINT IN WATERPROOF BOX

J	Supply	No	1
K	Install	No	1

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Bill No. 3
Internal SAPS

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<u>16A 1 PHASE SWITCHED SOCKET OUTLET DOUBLE PIN + EURO</u>		
A	Supply	No 125
B	Install	No 125
<u>16A 1 PHASE SWITCHED SOCKET OUTLET DOUBLE PIN + EURO</u>		
C	Supply	No 36
D	Install	No 36
<u>TELKOM DISTRIBUTION BOARD</u>		
E	Supply	No 2
F	Install	No 2
<u>TELEVISION/HDMI OUTLET</u>		
G	Supply	No 11
H	Install	No 11
<u>DATA POINT</u>		
J	<u>Supply</u>	No 54
K	Install	No 54
<u>SIGNAGE PLUG POINT 5A SOCKET</u>		
L	Supply	No 4
M	Install	No 4
<u>20A DOUBLE POLE ISOLATOR@ INDICATED POSITION. INSTALLED IN CEILING VOID .</u>		
N	Supply	No 26
P	Install	No 26

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Internal SAPS

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<u>20A DOUBLE POLE WEATHER PROOF ISOLATOR</u>			
A	Supply	No	15
B	Install	No	15
<u>20A TRIPLE POLE WEATHER PROOF ISOLATOR@INDICATED POSITION-NEXT TO SPLIT UNIT</u>			
C	Supply	No	5
D	Install	No	5
<u>20A TRIPLE POLE WEATHER PROOF ISOLATOR@INDICATED POSITION-NIN CEILING VOID</u>			
E	Supply	No	2
F	Install	No	2
<u>20A HYDRO BOIL ISOLATOR</u>			
G	Supply	No	3
H	Install	No	3
<u>5A SINGLE SOCKET OUTLET FOR EXTRACTOR FAN TO BE CONNECTED TO LIGHT CIRCUIT</u>			
J	Supply	No	22
K	Install	No	22
<u>20A HAND DRYER ISOLATOR</u>			
L	Supply	No	7
M	Install	No	7
<u>16A LEGRAND FLUSH MOUNTING POP-UP BOX WHITE</u>			
N	Supply	No	2
P	Install	No	2

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Bill No. 3
Internal SAPS

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<u>20A GEYSER ISOLATOR</u>		
A	Supply	No 8
B	Install	No 8
<u>20A HEAT PUMP ISOLATOR</u>		
C	Supply	No 7
D	Install	No 7
<u>Light Switches - one way one lever</u>		
E	Supply	No 60
F	Install	No 60
<u>Light Switches - two way one lever</u>		
G	Supply	No 12
H	Install	No 12
<u>Light Switches - one way two lever</u>		
J	Supply	No 14
K	Install	No 14
<u>Light Switch - two way two lever</u>		
L	Supply	No 6
M	Install	m 6
<u>Connect equipment</u>		
N	Connection of all equipment as required by President Hyper	Item
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R

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LUMINAIRES

ALL LIGHT FITTINGS PRICING NEEDS TO BE
OBTAINED FROM BEKA - SCHREDER (
BENITA DELPORT) 079 728 2842 -
b.delport@beka-schreder.co.za

**"BEKA" OR SIMILAR APPROVED RONDO MIDI 15W
WN WITH 3M CAB TYRE**

A	Supply	No	123
B	Install	No	123

SERIES 30A BLK NW 15W

C	Supply	No	20
D	Install	No	20

"BEKA" OR SIMILAR APPROVED - ZELA 22W

E	Supply	No	7
F	Install	No	7

**"BEKA" OR SIMILAR APPROVED - ZELA 22W WITH
SYMMETRIC LIGHT DISTRIBUTION**

G	Supply	No	1
H	Install	No	1

**K187650 K918BUR S76D2DST/ 5M MOUNTING
HEIGHT
FIBRE GLASS POLE/ COLOUR BIRCH GREY WITH
BASE/GLAND/MCB**

J	<u>Supply</u>	No	6
K	Install	No	6

**"BEKA" OR SIMILAR APPROVED - LED PANEL 600X
600 36W**

L	Supply	No	71
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July
R.

A	Install	No	71
	<u>"BEKA" OR SIMILAR APPROVED - LED PANEL 1200 X 600 65W RECESSED</u>		
B	Supply	No	19
C	Install	No	19
	<u>"BEKA" OR SIMILAR APPROVED - ROUGHGUARD 55W LED (WITHOUT NIGHT LIGHT)</u>		
D	Supply	No	5
E	Install	No	5
	<u>"BEKA" OR SIMILAR APPROVED - ROUGHGUARD 55W LED (WITH NIGHT LIGHT)</u>		
F	Supply	No	10
G	Install	No	10
	<u>Mark up</u>		
H	Contractor mark-up		Item
	<u>EARTHING</u>		
J	Earthing of the complete electrical installation according to SANS regulations		Item
	<u>TEST AND COMMISSION</u>		
K	Test and commissioning of the internal electrical installation.		Item

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Section No. 9

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Internal SAPS

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