

<u>Supply, replace and connect flush switch sockets in a wallbox, complete with support frame, modules and cover plates:</u>		
30	Combination Socket Outlet - Switched 16 Amp RSA 3-pin socket with V-slimline 16A RSA outlet	No 14
31	Multi unit outlet, 3 x Normal, 2 x slimline 2pin, 1 x data, 1 x tel	No
32	Labeling of socket outlets as per specification	SUM
<u>Supply, replace and connect unswitch sockets in ceiling void, complete with a round box.:</u>		
33	5 Amp unswitch socket complete with round box. To be mounted on either wire tray or via conduits on purlins,walls etc	No 20
<u>Supply, replace and connect switch sockets in power skirting complete with cover plates.:</u>		
34	16 Amp Single Socket on power skirting	No 6
35	16 Amp Slimline 3-pin on power skirting	No 6
36	16 Amp Single Dedicated socket on power skirting	No 12
37	Data RJ45 outlet on power skirting	No 6
38	Tel RJ11 outlet on power skirting	No 6
<u>ISOLATORS</u>		
<u>Supply, replace and connect isolators complete in a wallbox including a white cover plate.:</u>		
39	30 Amp 2 pole Isolator complete with a weather proof enclosure for outdoor AC units	No 4
40	60 Amp 2 pole Isolator for air curtains	No 2
41	Labeling of Isolator outlets as per specification	SUM
<u>LUMINAIRES</u>		
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	<u>Supply, replace and connect luminaires complete with lamps, fixings, brass screws, washers, etc.:</u>			
42	New Type F1	No		
43	New Type F2	No	8	
44	New Type F3	No		
45	New Type F5.1	No	10	
46	New Type A1	No		
47	New Type A2	No		
48	New Type A3	No		
49	New Type B1	No	11	
50	New Type B2	No	6	
51	Exit	No		
	<u>Additional lamps</u>			
52	20W LED tube	No	2	
	<u>TELEPHONE/DATA INSTALLATION</u>			
	<u>Supply and replace a Surface mounted telephone board Including terminations of all conduit, complete with frame, door, wallbox, fixings, etc.</u>			
53	1100mm x 1100mm x 250mm deep (Tel & Data)	No	1	
	<u>Supply and replace PVC conduit including cutting, threading, bending, short lengths, 1-/2-/3-4-way boxes, bushes, locknuts, couplings, saddles, screws etc.:</u>			
54	25mm diameter PVC conduit	m	20	
	<u>Supply and replace sleeves pipes including short lengths jointing, sweeping bends, bushes, locknuts, etc.:</u>			
55	50mm diameter PVC sleeves	m	5	
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				R

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56	Supply and replace 1.6mm diameter steel galvanised draw wires into conduit/sleeves:	m	200	
	<u>LIGHTNING PROTECTION</u>			
	<u>The lightning protection installation shall be design and installed by a specialist in this field as per specification and shall provide a valid COC.</u>			
57	Allow the amount of R12 500.00 (Twelve Thousand Five Hundred Rand) for lightning protection.		Item	12 500.00
58	Profit and Attendance		Item	
	<u>EARTHING AND BONDING</u>			
59	Earthing of all buildings to comply with the latest SABS 0142-1993 Code of Practice for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with including fixings, brass screws, nuts, washers etc.:		Item	
60	A readily accessible earthing terminal for bonding of other services as specified in SANS 10142-1		Item	
	<u>TESTING AND COMMISSIONING</u>			
61	Inspections, testing and handing over of the complete electrical installation and valid COC in the presence of the Engineer and certify the results on the Certificate of Compliance by an accredited person.:		Item	
	<u>Any additional items of preliminaries nature that the tenderer may wish to add to comply with requirements of the specifications and/or bill of quantities.</u> <u>(To be listed hereunder by Tenderer)</u>			
62		Item	
63		Item	
64		Item	
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	<u>SECTION NUMBER 4</u>			
	<u>BILL NUMBER 4</u>			
	<u>BLOCK C</u>			
	-WORK GROUP 160-			
	<u>NOTE:</u> Supply, replace and commission distribution boards (flush mounted / surface mounted / floor standing), complete with - all switchgear as specified and including framework, tray, busbars (one per phase plus neutral & earth) to carry Mains Circuit Breaker currents, the termination of all conduits, conductors, sleeves, etc			
	<u>DISTRIBUTION BOXES AND EQUIPMENT</u>			
	<u>Supply and replace, complete with panels, etc surface distribution board including the busbars, switching gear equipment, termination of all conduits, conductors, Cables, etc. as specified</u>			
1	DB.C (N&E) (Flush mount)	No	1	
	<u>CHANNELS AND WIRE WAYS</u>			
	<u>Supply and replace OL8000 Wire Channels complete with splice clamps, channel hangers, threaded rod, coupling nuts, ect.</u>			
2	P8000 - Wire Channel for power installation	m	13	
	<u>Supply and replace GS50 Wire Mesh complete with splice clamps, channel hangers, coupling nuts, horizontal bends, tee's ect.</u>			
3	100mm wide - Medium Duty Wire Mesh for Data/ IT services	m	13	
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CONDUIT

Supply and replace SANS conduit including bending, short lengths, 1-/2-/3-/4-way boxes adaptors, locknuts, couplings, saddles, screws etc.:

4	20mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	40
5	20mm diameter - PVC - Pliable conduit	m	2
6	25mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	8
7	50mm diameter - PVC - Cut/Build into brickwork	m	2

Supply and replace pressed steel galvanised wall boxes 1mm thick:

8	100mm x 50mm x 50mm deep	No	5
9	100mm x 100mm x 50mm deep	No	3
10	50mm diameter PVC round boxes with lids	No	12
11	<u>Supply and replace a Pratley Econo Junction box complete with seals, adapters, screws etc.:</u>	No	

CONDUCTORS

Supply and replace 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc.:

12	2,5mm ²	m	130
13	4mm ²	m	300
14	6mm ²	m	

Supply and replace Green PVC insulated copper earth conductors drawn into conduits, etc.:

15	2,5mm ²	m	200
16	4mm ²	m	

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<u>Supply and replace flat twin & earth where no access to ceiling void is available, etc.:</u>			
17	2.5mm flat twin & earth	m	
18	4mm flat twin & earth	m	40
19	6mm flat twin & earth	m	
<u>POWER SKIRTING</u>			
<u>Supply and replace metal type power skirting consisting of 3 compartment 3 cover; including cutting ends, covers, elbows, T's, short lengths, screws, etc. as specified.</u>			
20	Power skirting (3 Channel)	m	12
21	90° Bends	No	2
22	End caps	No	4
<u>LIGHT SWITCHES</u>			
<u>Supply, replace and connect switches in flush mounted boxes, complete with cover plates (complete with wall boxes).:</u>			
23	20 Amp 1-lever / 1-way	No	5
24	20 Amp 1-lever / 2-way	No	1
25	20 Amp 2-lever / 1-way	No	
26	Dual load motion sensors	No	
27	Photocell complete in PVC box with clear lid	No	1
28	Labeling of light switches as per specification		SUM
<u>SWITCH SOCKETS</u>			
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Soil Drainage (Provisional)

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Soil Drainage (Provisional)

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FENCING AND GATES (PROVISIONAL)

Fencing prices are to include for site clearance and grading to even lines 1 m each side of fence line unless otherwise described, all necessary excavations in earth, risk of collapse and disposal of surplus excavated material

SECURITY FENCING

- WORKGROUP 136 -

POST BASES

Concrete in bases to project 50mm above ground level with exposed concrete shaped to falls and with a smooth finish

GALVANISING

All steelwork, excluding the intermediate posts, are to be 45 micron hot-dipped galvanised according to SABS 763. The rest of all fencing materials are to be Class C pre-galvanised

FLAT WRAP TO FENCING AND GATES

Flat wrap to fencing is to be formed of flat wrap razor security wire and to comply with CKS 672 specification. Flat wrap wire and clips to be Aluzink coated.

Flat wrap to 1,8m high fencing and gates is to be formed of three lengths of flat wrap, each fixed to five barbed wire strands with 2,5mm galvanised binding wire. The flat wrap combination to be made up as follows:

- (a) 700mm each top, middle and bottom

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Fencing, etc (Provisional)
RUBIQUANT QUANTITY SURVEYORS

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POSTS

Posts are to be formed of 100mm internal diameter x 3mm thick pipe sections. Tops of all pipe posts are to be sealed with pressed steel caps welded on and bottom end where cast into concrete with 12mm diameter x 300mm long anchor rod through holes 200mm from bottom of post

INTERMEDIATE POSTS

Intermediate posts are to be formed of 50mm internal diameter x 2,5mm thick pipe sections. Tops of all pipe posts are to be sealed with pressed steel caps welded on and bottom end where cast into concrete with 12mm diameter x 300mm long anchor rod through holes 200mm from bottom of post

STAYS

Stays are to be formed of 50mm internal diameter x 2,5mm thick pipe sections each with top end shaped and bolted to post with and including M10 bolt and bottom end where cast into concrete with 12mm diameter x 300mm long anchor rod through holes 200mm from bottom of stay

STANDARDS

Standards are to be bitumen painted Y-sections (2 kg/m) driven 600mm deep into ground and spaced at 3m centres. Each standard to include for 20MPa mass concrete standard base, 200 x 200 x 200mm high in ground including excavation, formwork, etc.

DEMOLITIONS

-WORK GROUP 102-

Removal of existing fence

- 1 Take down and remove existing wire mesh fencing 2 400mm high including 300 mm flat wrapped, with post as indicated by the engineer

m

43

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Fencing, etc (Provisional)
RUBIQUANT QUANTITY SURVEYORS

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SITE CLEARANCE

-WORK GROUP 104-

- | | | | |
|---|--|---|-----|
| 2 | Allow for digging up and removal of all grass, shrubs, rubbish and vegetable soil for a width of 500mm on either side of new fence line including forming 50mm high free space between underside of fence and ground surface by reducing or making up levels as required | m | 233 |
|---|--|---|-----|

METALWORK

-WORK GROUP 136-

2500MM HIGH SECURITY FENCING

Powder coated steel mesh security fencing

"ClearVu" or other approved

- | | | | |
|---|--|---|----|
| 3 | 2500mm high "Cochrane ClearVu 22" fence with spikes on top or similar approved | m | 43 |
|---|--|---|----|

GALVANISED PALISADE FENCING

Serengeti style palisade fence with factory applied 65 micron thick powder coated finish comprising 1.2mm thick palisades spaced at 143mm centres with two horizontal rails and 76 x 76 x 3mm post at 3m centres all complete in accordance with the manufactures specification or other approved

- | | | | |
|---|--|----|---|
| 4 | 1.20 x 2.10m High Single palisade gate to match palisade fence including hinges, security lock, etc. | No | 3 |
|---|--|----|---|

Sliding Gate to Main Entrance

- | | | | |
|---|---|----|---|
| 5 | 5000mm Long x 2 100mm High Steel sliding gate complete on and including gate rail, stoped end, guide rollers and gate motor | No | 3 |
|---|---|----|---|

SUNDRIES

- | | | | |
|---|---|---|-----|
| 6 | Continuous razor wire security roll to top of fence flat wrapped in 600 mm diameter rings fixed together to three strings of barbed wire (Included) with wire ties. | m | 233 |
|---|---|---|-----|

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Fencing, etc (Provisional)
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PAINTING

-WORK GROUP 152-

**Prepare scrub down with galvanised iron cleaner
prime with self-etching primer and two coats
aluminium paint on**

7 On gates, etc. (both sides measured over full flat area)

m2

564

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Fencing, etc (Provisional)

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1	Site works and Paving (Provisional)	135	
2	Water supplies (Provisional)	149	
3	Soil Drainage (Provisional)	154	
4	Fencing, etc (Provisional)	159	
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SECTION NUMBER 4

GENERAL NOTES

(a) The Bill of Quantities forms part of, and must be read in conjunction with the Specification and must be submitted, duly completed, on the closing date of the tenders.

(b) Tenderers must complete the Bill of Quantities and detail the unit rate and total amount of each item. The "Total" shall constitute the tender price adjudication.

Note:

(i) The Engineer reserves the right to adjust any individual item price and to rectify any discrepancy in item prices whilst the total price as quoted remains unaltered.

(c) "Material Rate" shall include the supply and delivery of all items of material to the site including all incidentals necessary for the completion of each item, plus the profit. The Material Rate shall be exclusive of Tax and imported duties which is itemised separately in the Bill of Quantities Summary.

(d) "Labour Rate" shall include the cost of labour, both skilled and unskilled, including supervision and profit required to complete the installation of all material covered by each item. The Labour Rate shall be exclusive of Tax, which is itemised separately in the Bill of Quantities Summary.

(e) No alteration, erasure or addition is to be made in the text. Should any alteration, erasure or addition be made it will not be recognised and the original working of the Bill of Quantities will be adhered to.

(f) Items in the Bill of Quantities are deemed to include supply, delivery, installation and connection where appropriate, unless stated to the contrary.

(g) The quantities given in the Bill of Quantities shall be considered as provisional and cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the quantities given in the Bill of Quantities.

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Bill No. 1

General Notes

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In the event of discrepancies between the drawings, specifications and Bill of Quantities the Engineer shall decide whether the work as executed shall be measured on site or whether re-measurement shall be effected from the working drawings only.

(h) Provisional sums shall be expended only as directed by the Engineer and any balance remaining shall be deducted from the amount of the contract sum. All items described as "Provisional" shall be measured as executed and paid for according to prices in the Bill of Quantities, or as quoted by the Contractor for items not included in the Bill. Any unexpected amounts shall be deducted from the amount of the Contract Sum. No work for which "Provisional" items are provided shall be commenced without written instruction from the Engineer.

(i) The quantities and rates for day work must be regarded as provisional and will only be payable to the Contractor if and when a written order to this effect has been issued.

(j) Provision is made for the addition and pricing of items which the Contractor may deem necessary to price separately for the successful completion of the Works. The total price is thus deemed to be for the complete and functional installation, in accordance with the specifications, drawings and standard practice. Under no circumstances will additional payments therefore be made for any work or material forming part of the installation, which could reasonably have been foreseen at tender stage as being required to complete the Works. (This is not to be confused with additional work which, subject to the approval of the Engineer, may at times become necessary or be requested and for which additional payments will be made.)

(k) CONTRACT CONDITIONS AS PER THE MAIN DOCUMENT WILL BE APPLICABLE.

(l) NO MATERIAL MAY BE ORDERED FROM THE BOM WITHOUT THE CONSENT OF THE ELECTRICAL ENGINEER.

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General Notes

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Bill No. 1

General Notes

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Corrosion protection

Cast Iron Pipes and Fittings:

Substitute L3.9.1 with the following:

"All internal surfaces shall be grit blasted to SA 2½ standard and then coated with Copon EP 2300 epoxy paint to a minimum thickness of 350 micron."

Joints, Bolts, Nuts and Washers:

Substitute L3.9.5 with the following:

"All joints, bolts, nuts and washers shall be cadmium-plated or stainless steel."

Rates

Rates for pipe items are to be all inclusive prices and rates (except where allowed for elsewhere) are for the completed work as described in the respective items and shall include all labour, pipes, **bedding and filling complete in layers not exceeding 300 mm (unless otherwise specified) and compacted** all sundry work, equipment cost, guards, lighting, profit and maintenance.

Under paved areas and buildings the sand bedding and filling must be stabilised with 4 % cement.

Rates for inspection chambers, etc., are to be all inclusive prices and rates (except where allowed for elsewhere) for the completed work as described in the respective items and shall include all labour, pipes, concrete-floors and slabs, brickwork, plastering, compacting, all sundry work, equipment cost, guards, lighting, profit and maintenance.

The Contractor is referred to Drawing no's 208640VSO/15 to 17 annexed to these Bill of Quantities.

Pipework, fittings, etc.

All underground steel pipes and fittings, after installation, shall be protected against corrosion according to PSL 1.2

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Water supplies (Provisional)
RUBIQUANT QUANTITY SURVEYORS

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Maintenance period

The maintenance period for the following work shall be 12 calendar months.

High density polyethylene class 16 piping complying with SABS 533 Part III

1	32 mm Pipes laid in and including trenches not exceeding 1000 mm deep	m	39
2	50 mm Pipes laid in and including trenches not exceeding 1000 mm deep	m	56
3	90 mm Pipes laid in and including trenches exceeding 1000 mm deep not exceeding 2000 mm	m	163
4	110 mm Pipes laid in and including trenches not exceeding 1000 mm deep	m	95

The following in HDPE compression (16 Bar) fittings

5	32 x 20 Reducer	No	15
6	32 x 90° Elbow	No	9
7	32 x 32 Equal Tee	No	2
8	50 x 50 Euqual Tee	No	3
9	50 x 90° Elbow	No	3
10	50 x 32 Reducer	No	5
11	90 x 90 Euqual Tee	No	4
12	90 x 90° Elbow	No	8
13	90 x 32 Reducer	No	6

The following in valves, etc

14	32mm Stainless steel sluice/gate valve with teflon seat	No	6
15	50mm Stainless steel sluice/gate valve with teflon seat	No	3

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16	50mm non-return valve with teflon seat	No	3
17	90mm Stainless steel sluice/gate valve with teflon seat	No	4
<u>The following in Valve Chamber</u>			
18	Standard valve chamber size 337 x 337 x 390mm high comprising of Class 25/19 concrete footing and collar, with 200mm diameter Class B COD fibre cement pipe vertically into ground and covered with Besaans-du Plessis size 115mm diameter x 102 Type 7 stopcock box cast into concrete collar	No	11
19	Garden tap complete with 20mm brass hose bib tap with hose union, approximately 1,2m long 20mm galvanised mild steel stand pipe with two elbows, 32 x 32 x 6mm mild steel angle section support painted with two coats aluminium paint, clamped around stand pipe, encased in 200 x 200mm unreinforced concrete 15MPa for a length of 800mm and 50mm above ground	No	2
20	63 mm Cast iron flanged "Meinecke Cosmos WPD PN18" or similar approved water meter	No	1
<u>Sundries</u>			
21	Cut into existing HDPE pipe in ground and connect new 90mm HDPE water pipe	No	1.00
<u>TESTING :</u>			
22	Allow for testing the whole of the water reticulation system and for any re-testing necessary after taking out and replacing any defective work to the satisfaction of the Representative.		Item

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Section No. 3
Bill No. 2
Water supplies (Provisional)
RUBIQUANT QUANTITY SURVEYORS

FOLLOWING IN EMERGENCY WATER TANK

See Engineers drawing as attached to this Bill of Quantities: Water Storage and Pressed Steel tank

SITE CLEARANCE, REMOVAL OF TREES, ETC.

Site Clearance :

23	Clear area of site of all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc., including reclearing of any subsequent vegetation growth during the contract period as considered necessary by the Representative and removing all material from site	m2	26
----	---	----	----

EXCAVATIONS, ETC.

Excavations not exceeding 2m deep

24	Bases	m3	13
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Risk of collapse of excavations

25	Sides of excavations exceeding 1,50m deep	m2	11
----	---	----	----

FILLING, ETC.

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Modified AASHTO density

26	Backfilling to trenches, holes, etc.	m3	8
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REINFORCED CONCRETE

30 Mpa/19mm Concrete poured around reinforcement:

27	Concrete base and stub columns for water tank	m3	5
----	---	----	---

GENERAL FORMWORK

General formwork

28	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	21
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REINFORCEMENT (Provisional)

Mild steel reinforcement

29 8mm Diameter bars

t 0.25

High tensile steel reinforcement

30 12mm Ditto

t 0.19

31 16mm Ditto

t 0.19

TANKS. ETC.

32 10'000 litre Polyethylene water tank as JoJo or other approved with 50mm diameter inlet at top and 50mm overflow outlet and 50mm outlet at base of tank including access hatch on top fitted with vermin-proof vent.

No 1

33 10'000 litre Polyethylene water tank as JoJo or other approved with 50mm diameter inlet at top and 50mm overflow outlet and 75mm outlet at base of tank including access hatch on top fitted with vermin-proof vent.

No 1

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RUBIQUANT QUANTITY SURVEYORS

**THE FOLLOWING IN PRESSURE BOOSTER
PUMPINSTALLATION**

BOOSTER PUMP

34 Provide a budgetary allowance of R 20'000-00 (Twenty Thousand Rand) for the complete installation of a Booster Pump for Domestic water, including valves and fittings, etc

Item 20 000 00

35 Allow for profit

Item

36 Allow for attendance

Item

BOOSTER PUMP

37 Provide a budgetary allowance of R 60'000-00 (Sixty Thousand Rand) for the complete installation of a Booster Pump for Fire water, including valves and fittings, etc

Item 60 000 00

38 Allow for profit

Item

39 Allow for attendance

Item

VALVES AND FITTINGS

40 Brass full bore ball valve fxf 50mm BSP

No 3

41 Brass gate valve fxf 50mm BSP

No 3

42 Brass spring loaded non return valve fxf 50mm BSP

No 4

43 Brass float valve c/w plastic ball 50mm

No 2

44 50mm threaded socket BSP

No 4

45 75mm threaded socket BSP

No 1

TESTING. ETC.

46 Allow for testing the whole of the emergency tank system and for any re-testing necessary after taking out and replacing any defective work to the satisfaction of the Representative

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Item No	Quantity	Rate	Amount
<u>SECTION NUMBER 3</u>			
<u>BILL NUMBER 3</u>			
<u>SOIL DRAINAGE (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The "Model Preambles for Trades" (1992 Edition) as recommended and published by the Association of South African Quantity Surveyors shall be deemed to be incorporated herein for tender puposes. Tenderers are refered to this document for the full intent and meaning thereof			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or other approved may be used with prior approval from the architect			
JBCC Work Group No. 146			
<u>EXISTING MANHOLE</u>			
1	Break into existing manhole, build in pipe as necessary, bench out in connection to the existing soil drainage system with and including all excavations, material and labour to the approval of the Representative.	No	2.00
2	Break into existing Suction pit, build in pipe as necessary, bench out in connection to the existing soil drainage system with and including all excavations, material and labour to the approval of the Representative.	No	2.00
<u>REPAIR OF SEWER INFRASTRUCTURE</u>			
<u>Sewer pipe repairs, all pipe and fittings to be checked with Engineer before installing</u>			
<u>Free Flow uPVC drain pipes including bedding, backfilling and compacting of pipe trenches</u>			
3	110mm Pipe and excavations not exceeding 1m deep	m	130
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4	110mm Pipe and excavations exceeding 1m and not exceeding 2m deep	m	32
5	160mm Pipe and excavations not exceeding 1m deep	m	98
6	160mm Pipe and excavations exceeding 1m and not exceeding 2m deep	m	24

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<u>Extra over Free Flow uPVC pipe for fittings</u>				
7	110mm Bend	No	31	
8	110mm Access bend	No	17	
9	110mm Access junction	No	24	
10	110mm Rodding eye	No	24	
11	110mm Gulley P-trap	No	8	
12	160mm Bend	No	3	
13	160mm Access bend	No	4	
14	160mm Access junction	No	6	
<u>Sundries</u>				
15	15MPa/19mm Mass concrete encasing around 110mm horizontal drain pipe including all necessary formwork	m	18	
<u>Work to existing</u>				
16	Excavate in earth not exceeding 2m deep for and remove existing 110mm diameter drain pipe and fittings including backfilling, compaction, etc	m	284	
<u>Sundries</u>				
17	Extra over excavations to trenches, holes, etc., for excavations in soft rock	m3	14	
18	Ditto, but hard rock.	m3	14	
19	Imported sand in bedding and surround to pipework well compacted in layers, including any additional excavation, risk of collapse, etc	m3	10	
20	Keeping excavations free of water		Item	
Carried to Collection				R
Section No. 3 Bill No. 3 Soil Drainage (Provisional) RUBIQUANT QUANTITY SURVEYORS				

<u>Precast concrete circular manholes, chambers etc.</u>			
21	Standard precast manhole, 1 050 mm internal diameter exceeding 750 mm and not exceeding 1 000 mm deep internally complete with precast concrete rings, cover slab, double seal cast iron manhole cover and frame (SABS 558 Type 2A heavy duty in roads and Type 8A medium duty elsewhere), unreinforced concrete footing and benching in bottom, dished down to channels and finished smooth with plaster.	No	4
22	Standard precast manhole, 1 050 mm internal diameter exceeding 1000 mm and not exceeding 1 500 mm deep internally complete with precast concrete rings, cover slab, double seal cast iron manhole cover and frame (SABS 558 Type 2A heavy duty in roads and Type 8A medium duty elsewhere), unreinforced concrete footing and benching in bottom, dished down to channels and finished smooth with plaster.	No	2
23	Standard precast suction pit, 2 019 mm internal diameter exceeding 1000 mm and not exceeding 1500 mm deep internally complete with precast concrete rings, cover slab, double seal cast iron manhole cover and frame (SABS 558 Type 2A heavy duty in roads and Type 8A medium duty elsewhere), unreinforced concrete footing and benching in bottom, dished down to channels and finished smooth with plaster.	No	1
24	Standard precast suction pit, 2 019 mm internal diameter exceeding 1500 mm and not exceeding 2000 mm deep internally complete with precast concrete rings, cover slab, double seal cast iron manhole cover and frame (SABS 558 Type 2A heavy duty in roads and Type 8A medium duty elsewhere), unreinforced concrete footing and benching in bottom, dished down to channels and finished smooth with plaster.	No	1
TESTING :			
25	Allow for testing the whole of the soil drainage system and for any re-testing necessary after taking out and replacing any defective work to the satisfaction of the Representative.		Item

Carried to Collection

R

Section No. 3
Bill No. 3
Soil Drainage (Provisional)
RUBIQUANT QUANTITY SURVEYORS

Section No. 2

Bill No. 15

Plumbing and Drainage

COLLECTION

Total Brought Forward from Page No.

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No

Amount

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115

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Section No. 2

Bill No. 15

Plumbing and Drainage

RUBIQUANT QUANTITY SURVEYORS

Item No		Quantity	Rate	Amount
	<p><u>SECTION NUMBER 2</u></p> <p><u>BILL NUMBER 16</u></p> <p><u>GLAZING</u></p> <p>JBCC Work Group No. 150</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The "Model Preambles for Trades" (1992 Edition) as recommended and published by the Association of South African Quantity Surveyors shall be deemed to be incorporated herein for tender puposes. Tenderers are refered to this document for the full intent and meaning thereof</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>400 x 700mm Polished bevel-edge mirror fixed to wall with dome mirror screws</u></p>			
1	Mirror 1400 x 1000 mm high with four screws	No	11	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 16 Glazing RUBIQUANT QUANTITY SURVEYORS</p>			R

300