

GENERAL

TRUSS LOADING

The trusses have to be designed for a live load of 0,50kN/m²

The dead load of the trusses shall be to accommodate concrete roof tiles on 38 mm x 38 mm SA Pine battens, a gypsum and / or fibre cement board ceiling nailed on 38 x 38 mm brandering at 450 mm centres in both directions and 75 mm insulation wool

TRUSS DESIGN

All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practices for the Design of Timber Structures)

TRUSS PITCH

The truss pitch shall be as described in the Bills of Quantities for each respective truss type

ROOFS, ETC

Plate nailed timber roof trusses as per detail drawings included at the back of these Bills of Quantities

- | | | | |
|---|--|----|---|
| 1 | Roof construction of 30m ² (approx.) flat roof at ground floor level over concrete slabs as per attached drawing. Roof to receive new sheeting (measured elsewhere.) Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval. A valid roof certificate must be submitted to the engineer before the placing of sheeting. | No | 1 |
| 2 | Roof construction of 47m ² (approx.) flat roof at ground floor level over concrete slabs as per attached drawing. Roof to receive new sheeting (measured elsewhere.) Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval. A valid roof certificate must be submitted to the engineer before the placing of sheeting. | No | 1 |

Carried to Collection

Section No. 2
Bill No. 7
Carpentry and Joinery
RUBIQUANT QUANTITY SURVEYORS

R

3	Roof construction of 70m ² (approx.) flat roof at ground floor level as per attached drawing. Roof to receive new sheeting (measured elsewhere.) Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval. A valid roof certificate must be submitted to the engineer before the placing of sheeting.	No	1
4	Roof construction of 70m ² (approx.) pitched roof at ground floor level as per attached drawing. Roof to receive new slate tiles to match existing (measured elsewhere.) Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval. A valid roof certificate must be submitted to the engineer before the placing of sheeting.	No	1
5	Opening up of existing roof to allow for joining of extended roof with existing. Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval.		Item
<u>Sundries</u>			
6	Two coats ABE Provonite on roof timbers	m ²	70
<u>EAVES, VERGES, ETC.</u>			
<u>Pressed fibre cement</u>			
7	12 x 300mm Nutec fibre cement fascia board screwed to splayed purlin and soffit purlin with galvanized grabber screws at 600mm centres	m	408
<u>SKIRTINGS</u>			
<u>Wrought hardwood</u>			
8	19 x 75mm Moulded meranti skirting with quarter round	m	294
<u>DOORS</u>			
<u>"Swartland" Semi-solid core door with four concealed edges. Pre-painted by manufacturer with White Coat both sides or other approved</u>			
9	40mm Thick door size 813 x 1882mm high	No	4

Carried to Collection

R

Section No. 2
Bill No. 7
Carpentry and Joinery
RUBIQUANT QUANTITY SURVEYORS

10	40mm Thick door size 813 x 2032mm high <u>"Swartland" solid core door with four concealed edges. Pre-Varbusged by manufacturer both sides or other approved</u>	No	7
11	40mm Thick door size 813 x 2032mm high	No	7
12	40mm Thick door size 900 x 2032mm high	No	2
13	40mm Thick solid core two panel with bolecting moulds single "class A" fire door with hardwood edges and masonite panel both sides size 813 x 2032mm high <u>Solid Meranti</u>	No	4
14	Frame single rebated for door 813 x 2 032mm high <u>BEADS, ARCHITRAVES, ETC.</u> <u>Wrought hardwood</u>	No	4
15	32 x 70 mm Profiled and grooved weather bar with and including sealing at joint with door	m	3

Carried to Collection

Section No. 2
Bill No. 7
Carpentry and Joinery
RUBIQUANT QUANTITY SURVEYORS

R

JOINERY FITTINGS

THE FOLLOWING IN GRANITE WORKTOPS. ETC.

Worktop of 30mm thick Rustenburg Granite stone worktops

16	Vanity slab 600mm wide with granite facia edges 100mm high, fixed to wall with suitably sized brackets, 45 x 45 x 3mm angle section legs and frame and M12 expansion bolts for hand wash basins.	m	8
----	--	---	---

THE FOLLOWING IN STORAGE SHELVES

Laminated SA Pine

17	22 x 350 mm Wide laminated SA pine shelves with 16 x 16 mm hardwood edging fixed to frame	m	258
18	22 x 450 mm Wide laminated SA pine shelves with 16 x 16 mm hardwood edging fixed to frame	m	52

JOINERY FITTINGS

General

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

Prices are to include for all necessary filler pieces against walls etc.

Notes:

Tenderers are advised to pay special attention to the material specification which forms part of the joinery drawings for tender purposes.

Carried to Collection

Section No. 2
Bill No. 7
Carpentry and Joinery
RUBIQUANT QUANTITY SURVEYORS

R

References

References given in descriptions refer to the respective types of fittings detailed on the architect's drawing(s) numbered VWPS-JOINERY 400 annexed to these bills of quantities for tender purposes.

19	Adjustable shelving 400mm deep complete with double slotted wallband at max 650mm c/c (J3)	m	260
20	Cupboard shelving 360mm deep (J6 & J7)	m	64
21	Reception desk 6045 x 800 x 1200mm high (J1)	No	1
22	Lockable cupboard 400 x 1201 x 1560mm high (J2)	No	10
23	Fireplace shelves cupboard 600 x 600 x 1193mm high (J4)	No	4
24	Vanity cupboard 600 x 1192 x 835mm high (J5)	No	2
25	Reception desk 2000 x 300 x 1200mm high counter with 3280 x 600 x 760mm high desk complete with two drawer units (J8)	No	1
26	Kitchen floor unit 2600 x 600 x 900mm high (J9)	No	1
27	Kitchen floor unit 2400 x 600 x 900mm high (J10)	No	1
28	Kitchen wall unit 2400 x 360 x 1100mm high (J10)	No	1

Carried to Collection

Section No. 2
Bill No. 7
Carpentry and Joinery
RUBIQUANT QUANTITY SURVEYORS

R

Section No. 2

Bill No. 7

Carpentry and Joinery

COLLECTION

Total Brought Forward from Page No.

Page
No

75

76

77

78

79

80

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 7

Carpentry and Joinery

RUBIQUANT QUANTITY SURVEYORS

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 8</u>			
	<u>CEILING, PARTITIONS AND ACCESS FLOORING</u>			
	JBCC Work Group No. 128			
	<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 referred to this document for the full intent and meaning thereof			
	<u>NAILED UP CEILINGS</u>			
	<u>6 mm Pressed fibre cement boards with 50 x 6 mm fibre cement cover strip including 38 x 38 mm sawn softwood branderung at 450 centers against walls</u>			
1	Ceilings including 38 x 50mm sawn softwood branderung at 450mm centres	m2	116	
2	Extra over ceiling for forming trap door size 600 x 600 mm (Provisional)	No	9	
	<u>SUSPENDED CEILINGS</u>			
	<u>Replace existing ceiling with 600 mm Wide x 1200 mm long "Everite Thermoclad" or similar approved with 25mm polystyrene backing suspended ceiling panels with fissured embossed vinyl laminated finish on pre-painted white exposed tee suspension system including main and cross sections, hangers and angles, grids complete, installed strictly to manufacturer's specifications. Colour and finish to Architect's approval</u>			
3	To ceilings suspended exceeding 0,5m and not exceeding 2m below timber purlins, Suspended ceiling exceeding 3m above ground ant not exceeding 9m above ground	m2	418	
	Carried to Collection			R
	Section No. 2 Bill No. 8 Ceilings, Partitions & Access Flooring RUBIQUANT QUANTITY SURVEYORS			

4	Extra over ceiling for forming trap door size 600 x 600mm (Provisional)	No	10
5	19 x 25mm "LSM25" Recessed wall angle with colour and finish to Architect's approval	m	452
<u>CORNICE, ETC.</u>			
<u>Polystyrene</u>			
6	50 X 50 X 75mm Polystyrene cove cornice fixed to wall and ceiling with SABS approved pre-mixed acrylic cornice adhesive paste (Provisional)	m	183
<u>CEILING INSULATION</u>			
<u>Resin bonded glass fibre insulation in blanket form</u>			
7	100mm Insulation laid over brandering	m2	533

Carried to Collection

Section No. 2
Bill No. 8
Ceilings, Partitions & Access Flooring
RUBIQUANT QUANTITY SURVEYORS

R

Section No. 2

Bill No. 8

Ceilings, Partitions & Access Flooring

COLLECTION

Total Brought Forward from Page No.

Page
No

82

83

Amount

Carried Forward to Summary of Section No. 2

Section No. 2

Bill No. 8

Ceilings, Partitions & Access Flooring

RUBIQUANT QUANTITY SURVEYORS

R

249

Item
No

Quantity Rate Amount

SECTION NUMBER 2

BILL NUMBER 9

FLOOR COVERINGS, WALL LININGS, ETC.

JBCC Work Group No. 130

SUPPLEMENTARY PREAMBLES

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

NOTE : All materials shall be in colours to be selected by the Representative / Agent and, where applicable, laid to patterns .

EDGES, ETC.

Aluminium dividing strips

1 12mm High M-Trim mill finish dividing strip in concrete thresh hold (Code: AFTIR120) or other approved

m 40

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 9
Floor Coverings
RUBIQUANT QUANTITY SURVEYORS

250

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 10</u>			
	<u>IRONMONGERY</u>			
	JBCC Work Group No. 132			
	<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 purposes. Tenderers are referred to this document for the full intent and meaning thereof			
	<u>LOCKS, CLOSERS, CATCHES, ETC.</u>			
	<u>Replace existing ironmongery</u>			
	<u>All ironmongery as codes by ASSA ABLOY or other approved</u>			
1	2x18ASCMKD cylinder profile master keyed	No	16	
2	SS2016SS bathroom deadbolt	No	3	
3	SS5004-73SS Escutcheon on rose bathroom indicator bolt	No	3	
4	L-2215-78SS/SL "Union" Mortice sash lock SS	No	16	
5	37651AS "Union" Aluminium helping hand facility indicator bolt	No	2	
6	DC500 cam action door closer EN1-4 SIL	No	5	
	Carried to Collection			R
	Section No. 2 Bill No. 10 Ironmongery RUBIQUANT QUANTITY SURVEYORS			

251

<u>CELL LOCKS</u>				
7	Provide a budgetary allowance of Thirty Two Thousand Rand (R32'000.00) (This sum will be deducted from the contract) for Cell Locks provided to the Contractor (taking delivery and fixing elsewhere)		Item	32 000.00
8	Allow for profit		Item	
9	Allow for taking delivery, storing on site and fixing in position only	No	1	
<u>HINGES, BOLTS, ETC.</u>				
10	"ASSA ABLOY" 100 x 88mm stainless steel but hinge or other approved	No	94	
<u>HANDLES</u>				
<u>Replace existing ironmongery</u>				
11	SS6163-06SS handle on plate blank	No	32	
12	PHD-CF-300-22SS "Union" Stainless steel 300mm Pull Handle flange fixed	No	4	
13	SS5D152X304-06 "Union" 22mm Diameter tubular Stainless steel Pull Handle bolt thru	No	3	
<u>DOOR STOPS</u>				
<u>"Assa Abloy" or other approved</u>				
14	87001SS Floor door stop satin SS	No	16	
15	SS8025SS Hat & Coat hook with buffer	No	3	
<u>SUNDRIES</u>				
16	8852SC, Dust proof strike	No	18	
Carried to Collection				R
Section No. 2				
Bill No. 10				
Ironmongery				
RUBIQUANT QUANTITY SURVEYORS				

PUSH PLATES AND KICKING PLATES

"Solid" or other approved

17	SS5089-300W 300 x 800mm kick plate fix with counter sunk screws	No	5
18	SS5023-06-304W 152 x 304mm push plate stainless steel blank fix with counter sunk screws	No	3

LETTERS. NAMEPLATES. ETC.

"Union Dove" 152 x 178 x 2mm Thick brass sign plate or other approved

19	SS5066-06SSE10, Male indicator sign	No	1
20	SS5066-06SSE11, Female indicator sign	No	1
21	SS5066-06SSE14, Paraplegic toilet sign	No	2
22	SS5066-06SSE12, Male & Female indicator sign	No	1
23	SS5066-06SSE, Fire extinguisher sign	No	15

Aluminium plates

50 x 50 Aluminium Engraved door number plate

24	Sign with one letter or numeral	No	41
25	Ditto, but with two letter or numeral	No	1

"ESHEN & REID" OR OTHER APPROVED SAPS EMBLEM

26	1100 X 1100mm Cast Aluminium SAPS Emblem	No	1
27	220mm High 3mm Aluminium letters applied on pins RE: SOUTH AFRICAN POLICE SERVICE VICTORIA WEST	No	37

Carried to Collection

R

Section No. 2
Bill No. 10
Ironmongery
RUBIQUANT QUANTITY SURVEYORS

Item No	Quantity	Rate	Amount
<u>SECTION NUMBER 4</u>			
<u>BILL NUMBER 1</u>			
<u>LOW VOLTAGE DISTRIBUTION</u>			
-WORK GROUP 160-			
<p><u>NOTE:</u> Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 160 for JBCC CPAP purposes.</p>			
SUPPLEMENTARY PREAMBLES			
The following bill of quantities must be read in conjunction with the electrical specifications.			
Health and Safety regulations shall be strictly adhered to at all times during the installation period.			
Only SABS or other approved material is to be used.			
<u>ELECTRICAL CONNECTION</u>			
<p><u>Upgrading of the existing electrical connection to Victoria West Police Station from the existing PEP minisub in Market Street. The existing 80A T/P connection must upgrade to a new 150Am T/P supply.</u></p>			
1			
Allow the amount of R30 000.00 (Thirty Thousand Rand) for Ubuntu Local Municipality network contributions (PC Amount)			55 000 00
Item			
2			
Profit and Attendance			
Item			
3			
Supply and install a new 160Amp T/P Cbi F15D circuit breaker complete with flash barriers, labels, 70mm ² tails from the busbars for the new supply to Victoria West Police Station.			
Item			
Carried to Collection			R
<p>Section No. 4 Bill No. 2 Low Voltage Cable Works RUBIQUANT QUANTITY SURVEYORS</p>			

254

DISTRIBUTION KIOSK

Supply, deliver, install & connect up the following low voltage Distribution Kiosks, as specified and as per detailed single line drawings. Complete with all terminations, busbars, tails, support frames, equipment, switchgear and metering units.

4	Replace existing kiosk with new Kiosk 1 complete with Elster A1700 meter with CT's as specified complete with concrete plinth and earth spike.	No	1
5	Supply and install a new Kiosk 2 complete with meters as specified complete with concrete plinth and earth spike.	No	1
6	Union 50mm padlocks with Master keys for kiosks	No	2

FEEDER CABLES

The rates for cable trays shall include for splices, joining, drilling, end caps, bends, T-pieces, hangers, etc.

Supply, replace and connect new 660/1000 Volt multi-core PVC insulated armoured cables as specified:

PEP Store Minisub to Kiosk 1

7	70mm ² x 4 Core Cu - Cable in trench	m	100
8	70mm ² x 4 Core - Cable ends	No	2

Kiosk 1 to 60kVA Gen to Kiosk 1

9	25mm ² x 4 Core Cu - Cable in trench	m	30
10	25mm ² x 4 Core - Cable ends	No	4

Kiosk 1 to Kiosk 2 (Normal & Emergency)

11	25mm ² x 4 Core Cu - Cable in trench	m	80
12	25mm ² x 4 Core - Cable ends	No	4

Carried to Collection

Section No. 4
Bill No. 2
Low Voltage Cable Works
RUBIQUANT QUANTITY SURVEYORS

R

255

<u>Kiosk 1 to DB.A (Normal & Emergency Power)</u>			
13	16mm ² x 4 Core Cu - Cable on wire mesh	m	50
14	16mm ² x 4 Core - Cable ends	No	4
<u>DB.A to DB.Park Home (Normal & Emergency Power)</u>			
15	10mm ² x 3 Core Cu - Cable in wire mesh & trench	m	30
16	10mm ² x 3 Core - Cable ends	No	4
<u>DB.A to DB.C (Normal & Emergency Power)</u>			
17	16mm ² x 3 Core Cu - Cable in wire mesh & trench	m	30
18	16mm ² x 3 Core - Cable ends	No	4
<u>Kiosk 2 to DB.B (Normal & Emergency Power)</u>			
19	16mm ² x 4 Core Cu - Cable in trench	m	50
20	16mm ² x 4 Core - Cable ends	No	4
<u>Kiosk 2 to DB.D (Normal & Emergency Power)</u>			
21	16mm ² x 3 Core Cu - Cable in trench	m	60
22	16mm ² x 3 Core - Cable ends	No	4
<u>Kiosk 2 to DB.Kitchen (Normal & Emergency Power)</u>			
23	10mm ² x 3 Core Cu - Cable in trench	m	40
24	10mm ² x 3 Core - Cable ends	No	4
<u>Kiosk 2 to DB.Criminal Centre (Normal & Emergency Power)</u>			
25	10mm ² x 3 Core Cu - Cable in trench	m	40
26	10mm ² x 3 Core - Cable ends	No	4
<u>Kiosk 2 to DB.E (Normal & Emergency Power)</u>			
27	16mm ² x 4 Core Cu - Cable in trench	m	110

Carried to Collection

R

Section No. 4
Bill No. 2
Low Voltage Cable Works
RUBIQUANT QUANTITY SURVEYORS

28	16mm ² x 4 Core - Cable ends	No	4
<u>Kiosk 2 to DB.F & DB.G (Normal Power)</u>			
29	16mm ² x 3 Core Cu - Cable in trench	m	160
30	16mm ² x 3 Core - Cable ends	No	4
<u>DB.F & DB.G to DB.F1 & DB. G1 (Normal Power)</u>			
31	10mm ² x 3 Core Cu - Cable in trench	m	70
32	10mm ² x 3 Core - Cable ends	No	4
<u>DB.E to DB.Investigators (Normal & Emergency Power)</u>			
33	10mm ² x 3 Core Cu - Cable in trench	m	50
34	10mm ² x 3 Core - Cable ends	No	4
35	Labeling of cables ends as per specifications (Labels and Notices)		
<u>Supply, replace and connect Bare Copper Earth Wire with cables:</u>			
36	50mm ² Bare copper earth wire	m	100
37	16mm ² Bare copper earth wire	m	110
38	10mm ² Bare copper earth wire	m	210
<u>CABLE SLEEVES</u>			
<u>Supply and replace of sleeves for the low voltage cables : (excavations measured elsewhere)</u>			
39	50mm diameter PVC sleeve with draw wires	m	100
40	110mm diameter PVC sleeve (uPVC Heavy Duty Class 34) with draw wires	m	150
<u>PVC DANGER TAPE</u>			
41	Supply and replace of PVC danger tape above the medium voltage cables as specified:	m	900

SUM

Carried to Collection

R

Section No. 4
Bill No. 2
Low Voltage Cable Works
RUBIQUANT QUANTITY SURVEYORS

<u>CABLE ROUTE MARKERS</u>				
42	Supply and install of pre-cast cable route markers for the low voltage cables as specified :	No	20	
<u>EXCAVATIONS, ETC. (PROVISIONAL)</u>				
<u>Excavations for cables and sleeves including bedding, temporary support of sides, keeping excavations dry, backfilling, compacting and removing of surplus material: (750mm deep, 450mm wide)</u>				
43	Pickable material (60%)	m3	102	
44	For soft rock (40%)	m3	68	
45	For hard rock	m3	1	
46	Bedding	m3	33	
47	Remove and repair paving	m2	23	
<u>MANHOLES</u>				
48	Supply and install a 500mm x500mm x 500mm deep brick build manhole with wheatherproof cover, complete as specified for ICT Services.:	No	5	
<u>REMOVAL OF EXISTING EQUIPMENT</u>				
49	Allow the amount of R15 000.00 (Fifteen Thousand Rand) for the removal of existing electrical equipment and safe making of circuits. (PC Amount)			Item 25 000.00
<u>EARTHING AND BONDING</u>				
50	Earthing of all buildings to comply with the latest SANS 10142-1 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
Carried to Collection				R
Section No. 4				
Bill No. 2				
Low Voltage Cable Works				
RUBIQUANT QUANTITY SURVEYORS				

TESTING AND COMMISSIONING

51 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

Carried to Collection

R

Section No. 4
Bill No. 2
Low Voltage Cable Works
RUBIQUANT QUANTITY SURVEYORS

259

Section No. 4

Bill No. 2

Low Voltage Cable Works

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

164

165

166

167

168

169

Carried Forward to Summary of Section No. 4

R

Section No. 4

Bill No. 2

Low Voltage Cable Works

RUBIQUANT QUANTITY SURVEYORS

Item
No

SECTION NUMBER 4

BILL NUMBER 2

BLOCK A

-WORK GROUP 160-

NOTE:

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

DISTRIBUTION BOXES AND EQUIPMENT

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

1 DB.A (N&E) (Surface mount)

No

1

2 DB.Park Home (N&E) (Surface mount)

No

1

CHANNELS AND WIRE WAYS

Supply and replace OL8000 Wire Channels complete with splice clamps,channel hangers ,threaded rod, coupling nuts, ect.

3 P8000 - Wire Channel for power installation

m

42

Supply and replace GS50 Wire Mesh complete with splice clamps,channel hangers, coupling nuts,horizontal bends, tee's ect.

4 100mm wide - Medium Duty Wire Mesh for Data/ IT services

m

42

Carried to Collection

R

Section No. 4

Bill No. 3

Block A

RUBIQUANT QUANTITY SURVEYORS

CONDUIT

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

5	20mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	250
6	20mm diameter - PVC - Pliable conduit	m	30
7	25mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	30
8	50mm diameter - PVC - Cut/Build into brickwork	m	

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

9	100mm x 50mm x 50mm deep	No	8
10	100mm x 100mm x 50mm deep	No	8
11	50mm diameter PVC round boxes with lids	No	20
12	Supply and replace a Pratley Econo Junction box complete with seals, adapters, screws etc.:	No	1

CONDUCTORS

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

13	2,5mm ²	m	800
14	4mm ²	m	1 000
15	6mm ²	m	20

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

16	2,5mm ²	m	820
17	4mm ²	m	10

Carried to Collection

Section No. 4
Bill No. 3
Block A
RUBIQUANT QUANTITY SURVEYORS

R

<u>Supply and replace flat twin & earth where no access to ceiling void is available, etc.:</u>		
18	2.5mm flat twin & earth	m 100
19	4mm flat twin & earth	m 100
20	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>		
21	Power skirting (3 Channel)	m 65
22	90° Bends	No 9
23	End caps	No 24
<u>LIGHT SWITCHES</u>		
<u>Supply, replace and connect switches in flush mounted boxes, complete with cover plates (complete with wall boxes).:</u>		
24	20 Amp 1-lever / 1-way	No 5
25	20 Amp 1-lever / 2-way	No 2
26	20 Amp 2-lever / 1-way	No 1
27	Dual load motion sensors	No 6
28	Photocell complete in PVC box with clear lid	No 1
29	Labeling of light switches as per specification	No 1

SWITCH SOCKETS

Carried to Collection

Section No. 4
Bill No. 3
Block A
RUBIQUANT QUANTITY SURVEYORS

R

<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 8
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 45
<u>Supply, replace and connect switch sockets in power skirting complete with cover plates.:</u>		
34	16 Amp Single Socket on power skirting	No 15
35	16 Amp Slimline 3-pin on power skirting	No 15
36	16 Amp Single Dedicated socket on power skirting	No 30
37	Data RJ45 outlet on power skirting	No 15
38	Tel RJ11 outlet on power skirting	No 15
<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 7
40	60 Amp 2 pole Isolator for air curtains	No 2
41	Labeling of Isolator outlets as per specification	SUM
<u>LUMINAIRES</u>		
Carried to Collection		R

Section No. 4
Bill No. 3
Block A
RUBIQUANT QUANTITY SURVEYORS

264

<u>Supply, replace and connect luminaires complete with lamps, fixings, brass screws, washers, etc.:</u>		
42	New Type F2	No 7
43	New Type F3	No
44	New Type F4	No
45	New Type F5	No 32
46	New Type A1	No
47	New Type A2	No
48	New Type A3	No
49	New Type B1	No 10
50	New Type B2	No 2
51	Exit	No 2
<u>Additional lamps</u>		
52	20W LED tube	No 4
<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

Carried to Collection

Section No. 4
Bill No. 3
Block A
RUBIQUANT QUANTITY SURVEYORS

R

265

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 R15 000.00 (Fifteen Thousand Rand) for lightning protection.		Item	15 000 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	
	Carried to Collection			R
	Section No. 4 Bill No. 3 Block A RUBIQUANT QUANTITY SURVEYORS			

266

Section No. 4

Bill No. 3

Block A

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

171

172

173

174

175

176

Carried Forward to Summary of Section No. 4

R

Section No. 4

Bill No. 3

Block A

RUBIQUANT QUANTITY SURVEYORS

267

Item No	<u>SECTION NUMBER 4</u>	Quantity	Rate	Amount
	<u>BILL NUMBER 3</u>			
	<u>BLOCK B</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.B (N&E) (Flush mount)	No	1	
2	DB.KITCHEN (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>			
3	P8000 - Wire Channel for power installation	m	21	
	<u>Supply and replace GS50 Wire Mesh complete with splice clamps, channel hangers, coupling nuts, horizontal bends, tee's ect.</u>			
4	100mm wide - Medium Duty Wire Mesh for Data/ IT services	m	21	
	Carried to Collection			R
	Section No. 4 Bill No. 4 Block B RUBIQUANT QUANTITY SURVEYORS			

CONDUIT

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

5	20mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	200
6	20mm diameter - PVC - Pliable conduit	m	10
7	25mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m	15
8	50mm diameter - PVC - Cut/Build into brickwork	m	

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

9	100mm x 50mm x 50mm deep	No	8
10	100mm x 100mm x 50mm deep	No	8
11	50mm diameter PVC round boxes with lids	No	20
12	<u>Supply and replace a Pralley Econo Junction box complete with seals, adapters, screws etc.:</u>	No	1

CONDUCTORS

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

13	2,5mm ²	m	450
14	4mm ²	m	1 200
15	6mm ²	m	30

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

16	2,5mm ²	m	780
17	4mm ²	m	30

Carried to Collection

R

Section No. 4
Bill No. 4
Block B
RUBIQUANT QUANTITY SURVEYORS

<u>Supply and replace flat twin & earth where no access to ceiling void is available, etc.:</u>		
18	2.5mm flat twin & earth	m
19	4mm flat twin & earth	m
20	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>		
21	Power skirting (3 Channel)	m 28
22	90° Bends	No 3
23	End caps	No 8
<u>LIGHT SWITCHES</u>		
<u>Supply, replace and connect switches in flush mounted boxes, complete with cover plates (complete with wall boxes).:</u>		
24	20 Amp 1-lever / 1-way	No 2
25	20 Amp 1-lever / 2-way	No
26	20 Amp 2-lever / 1-way	No 2
27	Dual load motion sensors	No 10
28	Photocell complete in PVC box with clear lid	No 1
29	Labeling of light switches as per specification	No 1

SWITCH SOCKETS

Carried to Collection

Section No. 4
Bill No. 4
Block B
RUBIQUANT QUANTITY SURVEYORS

R

270