

SECTION B: PRELIMINARIES

Definition and interpretation (B1)

41 Definition and interpretation (B1.1 - B1.6.5)

F:..... V:..... T:.....

Item

Documents (B2)

42 Checking of documents (B2.1)

Item

These bills of quantities:

(1) contain pages and annexes as indexed, and;

(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances

Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

F:..... V:..... T:.....

Item

43 Provisional bills of quantities (B2.2)

F:..... V:..... T:.....

Item

44 Availability of construction documentation (B2.3)

The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period

F:..... V:..... T:.....

Item

45 Interests of agents (B2.4)

F:..... V:..... T:.....

Item

46 Priced documents (B2.5)

F:..... V:..... T:.....

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

271

47 Tender submission (B2.6)

Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders

F:..... V:..... T:.....

Item

The site (B3)

48 Defined works area (B3.1)

F:..... V:..... T:.....

Item

49 Geotechnical investigation (B3.2)

F:..... V:..... T:.....

Item

50 Inspection of the site (B3.3)

No claims for extras arising from the contractor having failed to comply with this clause will be entertained

F:..... V:..... T:.....

Item

51 Existing premises occupied (B3.4)

F:..... V:..... T:.....

Item

52 Previous work - dimensional accuracy (B3.5)

Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site

F:..... V:..... T:.....

Item

53 Previous work - defects (B3.6)

F:..... V:..... T:.....

Item

54 Services - known (B3.7)

F:..... V:..... T:.....

Item

55 Services - unknown (B3.8)

F:..... V:..... T:.....

Item

56 Protection of trees, etc (B3.9)

F:..... V:..... T:.....

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

57	Articles of value (B3.10)	F:..... V:..... T:.....	Item
58	Inspection of adjoining properties, etc (B3.11)	F:..... V:..... T:.....	Item
<u>Management of contract (B4)</u>			
59	Management of the works (B4.1)	F:..... V:..... T:.....	Item
60	Programming for the works (B4.2)	F:..... V:..... T:.....	Item
61	Progress meetings (B4.3)	F:..... V:..... T:.....	Item
62	Technical meetings (B4.4)	F:..... V:..... T:.....	Item
63	Labour and plant records (B4.5)	F:..... V:..... T:.....	Item
<u>Samples and shop drawings (B5)</u>			
64	Samples of materials (B5.1)	F:..... V:..... T:.....	Item
65	Workmanship samples (B5.2)	F:..... V:..... T:.....	
66	Shop drawings (B5.3)	F:..... V:..... T:.....	Item
67	Compliance with manufacturer's instructions (B5.4)	F:..... V:..... T:.....	Item
<u>Temporary works and plant (B6)</u>			
68	Deposits and fees (B6.1)	F:..... V:..... T:.....	Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

69	Enclosure of the works (B6.2)	F:..... V:..... T:.....	Item
70	Advertising (B6.3)	F:..... V:..... T:.....	Item
71	Plant, equipment, sheds and offices (B6.4)	F:..... V:..... T:.....	Item
72	Main notice board (B6.5)	F:..... V:..... T:.....	Item
73	Subcontractors notice board (B6.6)	F:..... V:..... T:.....	Item
<u>Temporary services (B7)</u>			
74	Location (B7.1)	F:..... V:..... T:.....	Item
75	Water (B7.2)	F:..... V:..... T:.....	Item
76	Electricity (B7.3)	F:..... V:..... T:.....	Item
77	Telecommunication equipment (B7.4)	F:..... V:..... T:.....	Item
78	Ablution facilities (B7.5)	F:..... V:..... T:.....	Item
<u>Prime cost amounts (B8)</u>			
79	Responsibility for prime cost amounts (B8.1)	F:..... V:..... T:.....	Item
<u>Attendance on nominated and selected subcontractors (B9)</u>			
80	General attendance (B9.1)	F:..... V:..... T:.....	Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

81 Special attendance (B9.2)
F:..... V:..... T:..... Item

82 Commissioning - Fuel, water and power (B9.3)
F:..... V:..... T:..... Item

Financial aspects (B10)

83 Statutory taxes, duties and levies (B10.1)
Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)
F:..... V:..... T:..... Item

84 Payment of preliminaries (B10.2)
F:..... V:..... T:..... Item

85 Adjustment of preliminaries (B10.3)
F:..... V:..... T:..... Item

86 Payment certificate cash flow (B10.4)
F:..... V:..... T:..... Item

General (B11)

87 Protection of works (B11.1)
F:..... V:..... T:..... Item

88 Protection/isolation of existing/sectionally occupied work (B11.2)
F:..... V:..... T:..... Item

89 Site security (B11.3)
There is a high theft rate in the area and on site. The contractor to ensure all their materials and equipment are adequately secured by armed security)
F:..... V:..... T:..... Item

90 Notice before covering work (B11.4)
F:..... V:..... T:..... Item

Carried to Collection Summary - Section 1: Preliminaries

Section 1 - Preliminaries

275

91	Disturbance (B11.5) F:..... V:..... T:.....	Item		
92	Enviromental disturbance (B11.6) F:..... V:..... T:.....	Item		
93	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
94	Vermin (B11.8) F:..... V:..... T:.....	Item		
95	Overhand work (B11.9) F:..... V:..... T:.....	Item		
96	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
97	As built information (B11.11) F:..... V:..... T:.....	Item		
98	Tenant installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
98	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete:			
	No			
	12.1.3 Interest of agents (B2.4) No			
	Carried to Collection Summary - Section 1: Preliminaries			
	Section 1 - Preliminaries			

R

276

12.1.4 Defined works area (B3.1)

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site

12.1.5 Geotechnical investigation (B3.2)

N/A

12.1.6 Existing premises occupied (B3.4)

Yes

12.1.7 Previous work - Dimensional accuracy (B3.5)

No specific information

12.1.8 Previous work - Defects (B3.6)

No specific information

12.1.9 Services - known (B3.7)

Care should be taken not to remove or damage any services and to notify the Principal Agent immediately. Points of connections will be on site by the principal agent

12.1.10 Protection of trees (B3.9)

Care should be taken not to damage any trees

12.1.11 Inspection of adjoining properties (B3.11)

Care should be taken not to damage any adjoining properties and liaison between the contractor and the **representative/Agent** is of the paramount importance

12.1.12 Enclosure of the works (B6.2)

The contractor shall provide, erect, alter as necessary, maintain, remove and make good on completion of the works suitable hoardings, complete with gantries, fans, safety screens, barriers etc. as necessary for the enclosure of the works and protection of the public, all to the satisfaction of the employer **Representative/Agent** and Local Authority

12.1.13 Offices (B6.4.3)

Specific requirements

N/A

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

12.1.14 Main notice board (B6.5)

No

12.1.15 Sub-contractors notice board (B6.6)

No

12.1.16 Water (B7.2)

Option A (by contractor)

12.1.17 Electricity (B7.3)

Alternative selected: A

12.1.18 Telecommunications (B7.4)

Alternative selected: A

12.1.19 Ablution facilities (B7.5)

Alternative selected: A

12.1.20 Protection of existing/sectionally occupied works
(B11.2)

N/A

12.1.21 Special attendance (B9.2)

Subcontractor (1) details:

No special attendance will be needed

12.1.22 Protection of the works

Yes

12.1.23 Disturbance (B11.5)

Yes

12.1.24 Enviromental disturbance (B11.6)

Yes

Item

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

278

SECTION C: SPECIFIC PRELIMINARIES

99 Clause C1 - Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorized representative

F:..... V:..... T:.....

Item

100 Clause C2 - Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorized and indicated in writing, prior to the execution thereof costs for such overtime will to be borne by the employer

F:..... V:..... T:.....

Item

101 Clause C3 - As-built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records

F:..... V:..... T:.....

Item

102 Clause C4 - Site instructions

All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size) and triplicate carbon format, which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only

Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book

F:..... V:..... T:.....

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

103 Clause C5 - Labour record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day

F:..... V:..... T:.....

Item

104 Clause C6 - Plant record

At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works

F:..... V:..... T:.....

Item

105 Clause C7 - Non-cession of monies

The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract

F:..... V:..... T:.....

Item

106 Clause C8 - Occupational Health and Safety Act

In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained

F:..... V:..... T:.....

Item

SUMMARY OF CATEGORIES

Category : Fixed R:.....

Category : Value R:.....

Category : Time R:.....

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

280

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

Bill No	SECTION 1	Page No	Amount
	<u>COLLECTION SUMMARY -SECTION 1: PRELIMINARIES</u>		
1	Preliminaries	1	R
		2	R
		3	R
		4	R
		5	R
		6	R
		7	R
		8	R
		9	R
		10	R
		11	R
		12	R
		13	R
		14	R
		15	R
		16	R
		17	R
		18	R
		19	R
		20	R
		21	R
	Carried to Final Summary - All Units		R _____
	Section 1 - Preliminaries		

281

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

Item	Description	Unit	Quantity	Rate	Amount
<u>SECTION 1 - FOUR (4) OFFICE BLOCK UNIT</u>					
<u>BILL NO 1</u>					
<u>EARTHWORKS</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	89		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site preserved for use as filling	m ²	89		
<u>EXCAVATIONS ETC.</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Ground beams, holes, etc.	m ³	7		
<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>					
<u>Extra over trench and hole excavations in earth for excavation</u>					
4	Soft rock	m ³	1		
5	Hard rock	m ³	0,36		
<u>Extra over trench and hole excavations in earth for excavation</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping to be located by contractor	m ³	7		
<u>Risk of collapse of excavations</u>					
7	Sides of trenches and hole excavations not exceeding 1,5m deep	m ²	72		
8	Keeping excavations free of water Item	Item			
<u>FILLING ETC</u>					
<u>Compaction of surfaces</u>					
9	Compaction of ground surface under floors, ground beams etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	46		
Carried forward to next page					R
Section 1 - Earthworks					

Brought forward from previous page		R
<u>Prescribed density test on filling</u>		
10	Modified AASHTO Density Test	No 4
11	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ² 32
12	To bottoms and sides of ground beams etc.	m ² 86
Carried to Collection Summary-Section 1: 4 Office Block Unit		R
Section 1 - Earthworks		

<u>SECTION 1</u>				
<u>BILL NO 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE</u>				
<u>15MPa/19mm concrete</u>				
1	Surface blinding under foundation beams	m3	1	
2	Apron slab cast in panels to falls	m3	4	
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
3	Foundations beams	m ³	6	
4	Surface beds cast in panels on waterproofing	m ³	8	
5	Ramps	m ³	3	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a wood/steel float trowel</u>				
<u>Surface beds, slabs, etc</u>				
6	Surface beds, slabs, etc	m2	46	
7	Apron slab to falls	m2	45	
<u>Smooth formwork to sides</u>				
8	Edges, risers, ends and reveals not exceeding 300mm high	m2	6	
<u>TEST BLOCKS</u>				
9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
10	10mm Diameter bars	t	0,22	
<u>High tensile steel reinforcement to structural concrete work</u>				
11	12mm Diameter bars	t	0,41	
<u>Fabric reinforcement</u>				
12	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	46	
Carried to collection summary-Section 1: 4 Office Block Unit				R
Section 1 - Concrete, formwork and reinforcement				

SECTION 1

BILL NO 3

WATERPROOFING

DAMP-PROOFING OF WALLS AND FLOORS

One layer 250 micron green polyethylene USB waterproof sheeting
(SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape

1 Under surface beds

m2

109

Carried to Collection Summary-Section 1: 4 Office Block Unit

R

Section 1 - Waterproofing

SECTION 1

BILL NO 4

FOUR (4) OFFICE BLOCK UNIT

Supply, delivery and installation of single floor 4 Office Block Unit, constructed of Type 2 pre-manufactured collapsable wall panels with 0.5mm pre-painted Chromadeck finish on both wall surfaces or 10mm thick fibre cement wall panels finished with one coat primer and two coats water-based wall paint. Wall panels to be bolted or welded together on site and fixed to a 25MPa/19mm reinforced concrete surface bed to form one permanent functional unit, all in accordance with the specifications, drawings and client requirements.

- 1 Four Office Block Unit, Overall size 15 000mm x 3 060mm wide on plan and 2700mm high at eaves complete with pitched steel roof structure formed of mild steel hot dipped galvanised 50 x 75mm lipped channels, 75 x 50mm cross beams at 900mm centres, 38 x 38mm steel purlins, permanent bracing etc. including 0.5mm metal roof coverings with Chromadek finish on both sides and complete with all necessary roof and rainwater goods accessories (flashing, ridge capping, gutters, downpipes etc.) and fitted with 12mm flush jointed gypsum or polyurethane ceiling boards including 500 x 500 x 12mm thick pressed steel trap door in 25 x 25 x 3mm T-section steel frame and 75mm coved cornice finished with one coat primer and two coats superior quality acrylic emulsion paint, including approved fire retardant insulation material fitted and laid taut between structural steel roof members. The unit must comprise 4 x office rooms complete with ten (10) x 1200 x 900mm high natural anodized aluminium windows factory fitted with 6mm thick safety glass, four (4) x 813 x 2125mm high meranti solid core external doors all three times hinged with 3mm aluminium hinges and hanged to an extruded natural anodized aluminium door frame complete with three lever mortice lockset, and four (4) x solid rubber door stops.

No 1

Additional Extras on Four (4) Office Block Unit

- 2 Hot dipped galvanised security gate suitable for door size 813 x 2125mm high, supplied and fitted complete with an industrial locking mechanism with a minium of three (3) barrel bolt hinges
- 3 1200 x 900mm high internal fitted window burglar bars constructed of 30 x 6mm mild steel main frame bar and supported with 30 x 6mm centrally placed horizontal mild steel flat bar, 12mm diameter vertically fixed mild steel round bars at 100mm centres to both main frame and horizontal flat bars
- 4 Vertical blinds with 127mm wide vanes (colour to be selected), size 1200mm x 900mm high with 46mm x 25mm high powder coated (colour to be selected) top track, fixed inside reveal with easy fix clips.

No 4

No 10

No 10

Carried forward

R

Section 1 - Four Office Block Unit

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS**

	Brought forward			R
5 Grenade screens suitable for window size 1200 x 900mm high, constructed of 3 x 25 x 25mm mild steel main angle frame 100mm bigger all round including 125 x 100mm mild steel base plates fixed to main frame and wall with M10 bolt including a fixing plate of 900mm high, galvanised welded mesh of 25 x 50mm aperture size of 2.5mm wire thickness, 30 x 3mm mild steel flat support bar fitted at every 600mm of the horizontal length back to back with a 3mm diameter stainless steel bolt and nut		No	10	
6 4mm Thick PVC flooring, including all necessary floor preparation, underfelt etc. on floors		m ²	44	
Carried to Collection Summary-Section 1: 4 office Block Unit				R
Sections 1 - Four Office Block Unit				

287

SECTION 1

BILL NO. 5

METALWORK

STEEL HANDRAILS. BALUSTRADES. ETC

HOT DIPPED GALVANISED MILD STEEL

Welded steel balustrading to ramp

1 Welded raking balustrading of 42 x 42 x 3mm hollow section top handrail, 42 x 42 x 3mm hollow section middle rail, 42 x 42 x 3mm hollow section bottom rail all at 365mm centres and 42 x 42 x3mm hollow section posts 1100mm high at 1500mm centres each with 150 x 150mm base plate holed for M18 bolts including bolting to concrete

m 16

Carried to collection summary-Section 1: 4 Office Block Unit

R

Section 1 - Metalwork (Balustrading, handrails etc.)

SECTION 1

BILL NO. 6

PLUMBING AND DRAINAGE

FIRE APPLIANCES ETC

Fire fighting equipment

1 4,5kg DCP dry powder portable fire extinguisher on and including wrought meranti backboard size 1000 x 255 x 25mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook

No 1

Carried to Collection Summary-Section 1: 4 Office Block Unit

R

Section1 - Plumbing and drainage

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

COLLECTION SUMMARY - SECTION 1: FOUR OFFICE BLOCK UNIT

Bill No	Description	Page No		
1	Earthworks	24		R
2	Concrete, formwork & reinforcement	25		R
3	Waterproofing	26		R
4	Four Office Block Unit	28		R
5	Metalwork	29		R
6	Plumbing and drainage	30		R
	Carried to Final Summary - 4 Office Block Unit			R
	Section 1 - Four (4) Office Block Unit			

SECTION 2: ELECTRICAL SERVICES INSTALLATION

BILL NO 1

DISTRIBUTION BOARD

1	Kiosk - Double Door fibreglass 12-way with single side set of busbars	ea	1
2	COC	ea	2

POWER SKIRTING

1	Marlanvil (WACO) L1115 Enclosure for data cables entry to power skirting	ea	4
2	2-Channel PVC power skirting	m	15
3	Data connector	ea	8
4	Data conector cover kit	ea	8
5	Telephone connector	ea	8
6	Telephone connector cover kit	ea	8

(NPS)

SMALL POWER

1	16 mm GP wire (Red, Black, Green/Yellow) - NPS from Kiosk	m	18
3	12-Way DB EPS	ea	1
2	2.5 mm GP wire (Red, Black, Green/Yellow)	m	152
4	25 mm PVC conduit	m	20
5	63 A CBI 2-pole isolator	ea	1
6	63 A CBI 30 mA Earth leakage	ea	1
7	10 A CBI circuit breaker	ea	0
8	20 A CBI circuit breaker	ea	6
9	Power Skirting AC isolator & cable gland	ea	4
10	AC isolator cover kit	ea	4
11	NPS 15 A SSO	ea	8
12	NPS 15 A SSO cover kit	ea	8

Carried forward

R

Four Office Block Unit: Sections 2 - Electrical Services Installation

R

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

		Brought forward	
13	100 x 100 mm 30 A 2-pole isolator - AC	ea	0
14	COC	ea	1
<u>(EPS)</u>			
<u>SMALL POWER</u>			
1	16 mm GP wire (Red, Black, Green/Yellow) - NPS from Kiosk	m	18
3	8-Way DB EPS	ea	1
2	2.5 mm GP wire (Red, Black, Green/Yellow)	m	50
4	25 mm PVC conduit	m	4
5	63 A CBI 2-pole isolator	ea	1
6	10 A CBI circuit breaker	ea	1
7	20 A CBI circuit breaker	ea	2
8	EPS 15 A SSO	ea	16
9	EPS 15 A SSO cover kit	ea	16
10	COC	ea	1
<u>LIGHTING</u>			
1	50 x 100 mm 1-lever 16 A light switch	ea	3
2	50 x 100 mm 2-lever 16 A light switch	ea	1
3	50 x 100 mm 3-lever 16 A light switch	ea	0
4	Luminaires (10 Watt + 20 Watt)	ea	1
5	35 Watt Dari replacement	ea	0
6	70 Watt Dari replacement	ea	8
7	37 Watt Zela	ea	0
8	Zela wall mount pedestal	ea	0
9	1.5 mm GP wire (Red, Black, Green/Yellow)	m	141
10	25 mm PVC conduit	m	43

Carried to Final Summary - 4 Office Block Unit

R

Four Office Block Unit: Sections 2 - Electrical Services Installation

SECTION 3: MECHANICAL SERVICES INSTALLATION

BILL NO 1

HEATING, VENTILATION & AIR-CONDITIONING (HVAC)

Supply, install and commission 9 000 BTU/hr. air conditioner, Mid-wall

1	Split unit (inverter type with heating and cooling); (incl. ea		4	
	labour/transport)			

Cabbling

2	Cabbling to DB		meter 26	
---	----------------	--	----------	--

Carried to Final Summary - 4 Office Block Unit

R

Four Office Block Unit: Sections 2 - Electrical Services Installation

FINAL SUMMARY - FOUR OFFICE BLOCK UNIT

**Sec
No**

**Page
No**

- 1 Four (4) Office Block Unit
- 2 Electrical services installation
- 3 Mechanical services installation

31
33
34

R
R
R

Sub-Total

R

Add: Technical Documentation: Site Development Plan by Professional Architect

R

Add: Municipal Plan Submission Fees

R

Sub-Total

R

Add: Value Added Tax @ 15%

R

TOTAL CARRIED TO FINAL SUMMARY - ALL UNITS

R

294

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

Item	Description	Unit	Quantity	Rate	Amount
<u>SECTION 1 - TWO OFFICE BLOCK WITH OPEN PLAN UNIT</u>					
<u>BILL NO 1</u>					
<u>EARTHWORKS</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	118		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site preserved for use as filling	m ²	118		
<u>EXCAVATIONS ETC.</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Ground beams, holes, etc.	m ³	11		
<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>					
<u>Extra over trench and hole excavations in earth for excavation</u>					
4	Soft rock	m ³	1		
5	Hard rock	m ³	1		
<u>Extra over trench and hole excavations in earth for excavation</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping to be located by contractor	m ³	11		
<u>Risk of collapse of excavations</u>					
7	Sides of trenches and hole excavations not exceeding 1.5m deep	m ²	107		
8	Keeping excavations free of water Item	Item			
<u>FILLING ETC</u>					
<u>Compaction of surfaces</u>					
9	Compaction of ground surface under floors, ground beams etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	96		
<u>Prescribed density test on filling</u>					
10	Modified AASHTO Density Test	No	4		
				Carried forward	R
Section 1 - Earthworks					

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

	Brought forward			R
<u>Soil insecticide in accordance with 2019 SANS 5859 Edition 3.1</u>				
11 Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming		m ²	74	
12 To bottoms and sides of ground beams etc.		m ²	128	
Carried to Collection Summary-Section 1: 2 Office Block Unit with Open Plan Unit				R
Section 1 - Earthworks				

296

<u>SECTION 1</u>				
<u>BILL NO 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE</u>				
<u>15MPa/19mm concrete</u>				
1	Surface blinding under foundation beams	m3	1	
2	Apron slab cast in panels to falls	m3	4	
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
3	Foundations beams	m ³	11	
4	Surface beds cast in panels on waterproofing	m ³	13	
5	Ramps	m ³	2	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a wood/steel float trowel</u>				
6	Surface beds, slabs, etc	m2	74	
7	Apron slab to falls	m2	45	
<u>Smooth formwork to sides</u>				
8	Edges, risers, ends and reveals not exceeding 300mm high	m2	6	
<u>TEST BLOCKS</u>				
9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
10	10mm Diameter bars	t	0,29	
<u>High tensile steel reinforcement to structural concrete work</u>				
11	12mm Diameter bars	t	0,61	
<u>Fabric reinforcement</u>				
12	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	74	
Carried to Collection Summary-Section 1: 2 Office Block Unit with Open Plan Unit				
Section 1 - Concrete, formwork and reinforcement				R

SECTION 1

BILL NO 3

WATERPROOFING

DAMPPROOFING OF WALLS AND FLOORS

One layer 250 micron green polyethylene USB waterproof sheeting
(SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape

1 Under surface beds

m2

82

Carried to Collection Summary-Section 1: 2 Office Block Unit
with Open Plan Unit

R

Section 1 - Waterproofing

SECTION 1

BILL NO 4

TWO (2) OFFICE BLOCK WITH OPEN PLAN UNIT

Supply, delivery and installation of single floor Two Office Block with Open Plan Unit, constructed of Type 2 pre-manufactured collapsable wall panels with 0.5mm pre-painted Chromadeck finish on both wall surfaces or 10mm thick fibre cement wall panel finished with one coat primer and two coats water-based wall paint. Wall panels to be bolted or welded together on site and fixed to a 25MPa/19mm reinforced concrete surface bed to form one permanent functional unit, all in accordance with the specifications, drawings and client's requirements.

- 1 Two Office Block with Open Plan Unit, size 11 930 x 6 194mm wide on plan and 2700mm high at eaves complete with pitched steel roof structure formed of mild steel hot dipped galvanised 50 x 75mm lipped channels, 75 x 50mm cross beams at 900mm centres, 38 x 38mm steel purlins, permanent bracing etc. including 0.5mm metal roof coverings with Chromadek finish on both sides complete with all necessary roof and rainwater goods accessories (flashing, ridge capping, gutters, down pipes etc.) and fitted with 12mm flush jointed gypsum or polyurethane ceiling boards including 500 x 500 x 12mm thick pressed steel trap door in 25 x 25 x 3mm T-section steel frame and 75mm covered cornice finished with one coat primer and two coats superior quality acrylic emulsion paint, including approved fire retardant insulation material fitted and laid taut between structural steel roof members. The Two Office Block with Open Plan Unit must comprise two (2) x office rooms size 3000 long x 2980mm wide and the remainder being open plan office, six (6) x 1200 x 900mm high natural anodized aluminium windows factory fitted with 6mm thick safety glass, four (4) x 813 x 2125mm high meranti solid core doors (two external and two internal), one (1) x 1500 x 2125mm high external double door. All doors to be three times hinged with 3mm aluminium hinges and hanged to an extruded natural anodized aluminium door frame complete with three lever mortice lockset, and six (6) x solid rubber door stops.

No 1

Additional Extras on Two Office Block with Open Plan Unit

- 2 Hot dipped galvanised security gate suitable for door size 813 x 2125mm high, supplied and fitted complete with an industrial locking mechanism with a minium of three (3) barrel bolt hinges
- 3 Hot dipped galvanised security gate suitable for door size 1500 x 2125mm high, supplied and fitted complete with an industrial locking mechanism with a minium of three (3) barrel bolt hinges
- 4 1200 x 900mm high internal fitted window burglar bars constructed of 30 x 6mm mild steel main frame bar and supported with 30 x 6mm centrally placed horizontal mild steel flat bar, 12mm diameter vertically fixed mild steel round bars at 100mm centres to both main frame and horizontal flat bars

No 2

No 1

No 6

Carried forward

R

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING
OF PRE-MANUFACTURED COLLAPSABLE UNITS

	Brought forward			R
5 Vertical blinds with 127mm wide vanes (colour to be selected), size 1200mm x 900mm high with 46mm x 25mm high powder coated (colour to be selected) top track, fixed inside reveal with easy fix clips		No	6	
6 Grenade screens suitable for window size 1200 x 900mm high, constructed of 3 x 25 x 25mm mild steel main angle frame 100mm bigger all round including 125 x 100mm mild steel base plates fixed to main frame and wall with M10 bolt including a fixing plate of 900mm high, galvanised welded mesh of 25 x 50mm aperture size of 2.5mm wire thickness, 30 x 3mm mild steel flat support bar fitted at every 600mm of the horizontal length back to back with a 3mm diameter stainless steel bolt and nut		No	6	
7 4mm Thick PVC flooring, including all necessary floor preparation, underfelt etc. on floors		m ²	73	
Carried to Collection Summary-Section 1: 2 Office Block Unit with Open Plan Unit				R
Section 1 - Two Office Block with Open Plan Unit				

300