



human settlements

Department:
Human Settlements
REPUBLIC OF SOUTH AFRICA

BILLS OF QUANTITIES
FOR
CONSTRUCTION OF CRU TYPOLOGIES
FOR
45m2 UNITS
THE DEPARTMENT OF HUMAN SETTLEMENTS – KWAZULU
NATAL

SEPTEMBER 2014

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NAME OF TENDERER:

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SECTION NO. 1

PRELIMINARIES

(CPAP WORK GROUP NO. 190 UNLESS OTHERWISE STATED)

MEANING OF TERMS 'TENDER / TENDERER'

Any reference to the words 'Tender' or 'Tenderer' herein and/or in any other documentation shall be construed to have the same meaning as the words 'Bid' or 'Bidder'

PRELIMINARIES

The JBCC Principal Building Agreement Edition 5.0 Code 2101, July 2007 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. 'N/A' signifying 'Not Applicable'.

The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related by insertion of 'F', 'V' or 'T' and the respective amounts in the 'Rate' column with the total extended to the 'Amount' column.

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1 DEFINITIONS AND INTERPRETATION Clause 1.0

F 0.00 V 0.00 T 0.00

OBJECTIVE AND PREPARATION

2 A2 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0

F 0.00 V 0.00 T 0.00

3 A3 DOCUMENTS Clause 3.0

F 0.00 V 0.00 T 0.00

Clause 3.7 is amended by the addition of the following: The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times

4 A4 DESIGN RESPONSIBILITY Clause 4.0

F 0.00 V 0.00 T 0.00

Carried To Section Summary

Section No. 1

Bill No. 1

Preliminaries

Item	0 00
Item	0 00
Item	0 00
Item	0 00
R	0 00

		Amount
5	A5 EMPLOYER'S AGENTS Clause 5.0 F 0.00 V 0.00 T 0.00 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4	Item 0 00
6	A6 CONTRACTOR'S SITE REPRESENTATIVE Clause 6.0 F 0.00 V 0.00 T 0.00	Item 0 00
7	A7 COMPLIANCE WITH LAWS AND REGULATIONS Clause 7.0 F 0.00 V 0.00 T 0.00 Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor See also clause C5 of Section C - Specific Preliminaries	Item 0 00
8	A8 WORKS RISK Clause 8.0 F 0.00 V 0.00 T 0.00	Item 0 00
9	A9 INDEMNITIES Clause 9.0 F 0.00 V 0.00 T 0.00 42.4.1 Waiver of the contractor's lien or right of continuing possession is required: N/A	Item 0 00
10	A10 GENERAL INSURANCES Clause 10.0 F 0.00 V 0.00 T 0.00	Item 0 00
11	B3.1 Defined works area F 0.00 V 0.00 T 0.00 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works (c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof	Item 0 00
Carried To Section Summary		R 0 00
Section No. 1		
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Preliminaries		

10.6 Injury to Persons or loss of or damage to Properties (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable

(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable

(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the

(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion

(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed

(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works

10.7 High risk insurance In the event of the project being executed in a geological area classified as a 'High Risk Area', that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs

Carried To Section Summary

Section No. 1

Bill No. 1

Preliminaries

R

0 00

				Amount
<p>10.7.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>42.4.2 Construction document copies to be supplied to the contractor free of charge: 3 (three)</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p>				
12	A11 SPECIAL INSURANCES Clause 11.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
13	A12 EFFECTING INSURANCES Clause 12.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
14	A13.0 ASSIGNMENT Clause 13.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
15	A14 SECURITY Clause 14.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
<u>EXECUTION</u>				
16	A15 PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
17	A16 SITE AND ACCESS Clause 16.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
18	A17 CONTRACT INSTRUCTIONS Clause 17.0	Item		0 00
	F 0.00 V 0.00 T 0.00			
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Preliminaries				

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				Amount	
19	B3.2 Geotechnical investigation	Item		0 00	
	F 0.00 V 0.00 T 0.00				
20	A18 SETTING OUT OF THE WORKS Clause 18.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
21	A19 TEMPORARY WORKS AND PLANT Clause 19.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
22	A20 NOMINATED SUB-CONTRACTORS Clause 20.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
23	A21 SELECTED SUBCONTRACTORS Clause 21.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
24	A22 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
25	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.	Item		0 00	
	F 0.00 V 0.00 T 0.00				
<u>COMPLETION</u>					
26	A24 PRACTICAL COMPLETION Clause 24.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
27	A25 WORK'S COMPLETION Clause 25.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
28	A26 FINAL COMPLETION Clause 26.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
29	A27 LATENT DEFECTS LIABILITY PERIOD Clause 27.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
30	A28 SECTIONAL COMPLETION Clause 28.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
31	A29 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
32	A30 PENALTY FOR NON-COMPLETION Clause 30.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
<u>PAYMENT</u>					
33	A31 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
34	A32 ADJUSTMENT TO THE CONTRACT VALUE Clause 32.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
35	A33 RECOVERY OF EXPENSE AND LOSS Clause 33.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
36	A34 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
37	A35 PAYMENT TO OTHER PARTIES Clause 35.0	Item		0 00	
	F 0.00 V 0.00 T 0.00				
Carried To Section Summary				R	0 00
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TERMINATION

38	A36 TERMINATION BY EMPLOYER - CONTRACTOR'S DEFAULT Clause 36.0	
	F 0.00 V 0.00 T 0.00	
39	A37 TERMINATION BY EMPLOYER - LOSS AND DAMAGE Clause 37.0	
	F 0.00 V 0.00 T 0.00	
40	A38 TERMINATION BY CONTRACTOR - EMPLOYER'S DEFAULT Clause 38.0	
	F 0.00 V 0.00 T 0.00	
41	A39 TERMINATION - CESSATION OF THE WORKS Clause 39.0	
	F 0.00 V 0.00 T 0.00	
42	A40 DISPUTE SETTLEMENT Clause 40.0	
	F 0.00 V 0.00 T 0.00	

CONTRACT AGREEMENT

43	A41 POST TENDER PROVISION Clause 41.0	
	F 0.00 V 0.00 T 0.00	

CONTRACT DATA

A42.1 CONTRACTING AND OTHER PARTIES

- 42.1.1 Employer:
42.1.2 Principal Agent:
42.1.3 Agent (1):
42.1.4 Agent (2):
42.1.6 Agent (3):

A42.2 CONTRACT AND SITE INFORMATION

- 42.2.1 The law applicable to this agreement:
42.2.2 Works identification:
42.2.3 Site Description:
42.2.4 Possession of the site is to be given on:
42.2.5 Period for the commencement of the works after the contractor takes possession of the site: (working days)
42.2.6 Completion of the works in sections is required (yes/no):
42.2.7 Waiver of the contractor's lien or right of continuing possession is required (yes/no):
42.2.8 Defined restriction to the site area. Where 'yes' the specific requirements are described below or detailed in the contract document (yes/no):
42.2.9 Geotechnic investigation of the site has been undertaken. Where 'yes' the results are included in the contract document (yes/no):

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Item	0 00
Item	0 00
Item	0 00
Item	0 00
Item	0 00
Item	0 00
Item	0 00

R 0 00

42.2.10 Existing premises will be occupied. Where 'yes' the specific requirements are described below or detailed in the contract document (yes/no): Yes

42.2.11 Provision of temporary services is required. Where 'yes' the specific requirements are described below or detailed in the contract document (yes/no):

42.2.12 Protection of existing trees and shrubs is required. Where 'yes' the specific requirements are described below or detailed in the contract document (yes/no):

A42.3 INSURANCES AND SECURITIES

A42.4 PRACTICAL COMPLETION DATES AND PENALTIES

A42.5 CONTRACTING PARTY

A42.6 SECURITIES

A42.7 PAYMENT AND ADJUSTMENT OF PRELIMINARIES

A42.8 EMPLOYERS CHANGES TO JBCC STANDARD DOCUMENTS

A42.9 THE TENDER

SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

44 B1.1 Definitions and interpretation

Item 0 00

F 0.00 V 0.00 T 0.00

B2.0 DOCUMENTS

45 B2.1 Checking of documents

Item 0 00

F 0.00 V 0.00 T 0.00

46 B2.2 Provisional bills of quantities

Item 0 00

F 0.00 V 0.00 T 0.00

47 B2.3 Availability of construction documentation

Item 0 00

F 0.00 V 0.00 T 0.00

48 B2.4 Interests of agents

Item 0 00

F 0.00 V 0.00 T 0.00

49 B2.5 Priced documents

Item 0 00

F 0.00 V 0.00 T 0.00

50 B2.6 Tender submission

Item 0 00

F 0.00 V 0.00 T 0.00

B3.0 THE SITE

42.3.2 Supplementary insurance is required: Yes

B4.0 MANAGEMENT OF CONTRACT

51 B4.1 Management of the works

Item 450 000 00

F 0.00 V 0.00 T 0.00

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R 450 000 00

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				Amount	
52	B4.2 Programme for the works			Item	0 00
	F 0.00 V 0.00 T 0.00				
53	B4.3 Progress meetings			Item	0 00
	F 0.00 V 0.00 T 0.00				
54	B4.4 Technical meetings			Item	0 00
	F 0.00 V 0.00 T 0.00				
55	B3.3 Inspection of the site			Item	0 00
	F 0.00 V 0.00 T 0.00				
	42.3.3 Public liability insurance to be effected by: Contractor For the amount of: R5 000 000.00 With a deductible of: To be determined by contractor				
56	B4.5 Labour and plant records			Item	0 00
	F 0.00 V 0.00 T 0.00				
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>				
57	B5.1 Samples of materials			Item	0 00
	F 0.00 V 0.00 T 0.00				
58	B5.2 Workmanship sample			Item	0 00
	F 0.00 V 0.00 T 0.00				
59	B5.3 Shop drawings			N/A	0 00
	F 0.00 V 0.00 T 0.00				
60	B5.4 Compliance with manufacturer's instructions			Item	0 00
	F 0.00 V 0.00 T 0.00				
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>				
61	B6.1 Deposits and fees			Item	0 00
	F 0.00 V 0.00 T 0.00				
62	B6.2 Enclosure of the works			Item	0 00
	F 0.00 V 0.00 T 0.00				
63	B6.3 Advertising			Item	0 00
	F 0.00 V 0.00 T 0.00				
64	B6.4 Plant, equipment, sheds and offices			Item	0 00
	F 0.00 V 0.00 T 0.00				
65	B6.5 Main notice board			Item	0 00
	F 0.00 V 0.00 T 0.00				
66	B6.6 Subcontractors' notice board			Item	0 00
	F 0.00 V 0.00 T 0.00				
	<u>B7.0 TEMPORARY SERVICES</u>				
67	B7.1 Location			Item	0 00
	F 0.00 V 0.00 T 0.00				
68	B7.2 Water			Item	0 00
	F 0.00 V 0.00 T 0.00				
Carried To Section Summary				R	0 00
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				Amount	
Tenderers shall complete the Site Inspection Certificate included in the tender documents (refer Returnable Schedules) and return the same with the tender submission.					
42.3.4 Support insurance to be effected by the Employer N/A					
69	B7.3 Electricity			Item	0 00
	F	0.00 V	0.00 T	0.00	
70	B7.4 Telecommunication facilities			Item	0 00
	F	0.00 V	0.00 T	0.00	
71	B7.5 Ablution facilities			Item	0 00
	F	0.00 V	0.00 T	0.00	
<u>B8.0 PRIME COST AMOUNTS</u>					
72	B8.1 Responsibility for prime cost amounts			Item	0 00
	F	0.00 V	0.00 T	0.00	
<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>					
73	B9.1 General attendance			Item	0 00
	F	0.00 V	0.00 T	0.00	
74	B9.2 Special attendance			Item	0 00
	F	0.00 V	0.00 T	0.00	
75	B9.3 Commissioning - fuel, water and electricity			Item	0 00
	F	0.00 V	0.00 T	0.00	
<u>B10.0 FINANCIAL ASPECTS</u>					
76	B10.1 Statutory taxes, duties and levies			Item	0 00
	F	0.00 V	0.00 T	0.00	
77	B10.2 Payment for preliminaries			Item	0 00
	F	0.00 V	0.00 T	0.00	
78	B10.3 Adjustment of preliminaries			Item	0 00
	F	0.00 V	0.00 T	0.00	
79	B10.4 Payment certificate cash flow			Item	0 00
	F	0.00 V	0.00 T	0.00	
<u>B11.0 GENERAL</u>					
80	B11.1 Protection of the works			Item	0 00
	F	0.00 V	0.00 T	0.00	
81	B3.4 Existing premises occupied			Item	0 00
	F	0.00 V	0.00 T	0.00	
82	B11.2 Protection / isolation of existing / sectionally occupied works			Item	0 00
	F	0.00 V	0.00 T	0.00	
83	B11.3 Security of the works			Item	0 00
	F	0.00 V	0.00 T	0.00	
84	B11.4 Notice before covering work			Item	0 00
	F	0.00 V	0.00 T	0.00	
Carried To Section Summary				R	0 00
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				Amount	
85	B11.5 Disturbance			Item	0 00
	F 0.00 V 0.00 T 0.00				
86	B11.6 Environmental disturbance			Item	0 00
	F 0.00 V 0.00 T 0.00				
87	B11.7 Works cleaning and clearing			Item	0 00
	F 0.00 V 0.00 T 0.00				
88	B11.8 Vermin			Item	0 00
	F 0.00 V 0.00 T 0.00				
89	B11.9 Overhand work			Item	0 00
	F 0.00 V 0.00 T 0.00				
90	B11.10 Instruction manuals and guarantees			Item	0 00
	F 0.00 V 0.00 T 0.00				
91	B11.11 As built information			Item	0 00
	F 0.00 V 0.00 T 0.00				
92	B11.12 Tenant installations			N/A	0 00
	F 0.00 V 0.00 T 0.00				
<u>B12.0 SCHEDULE OF VARIABLES</u>					
<u>B12.1 Pre-tender information:</u>					
Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available. Where any item is not relevant to this specific contract, such item is marked N/A (signifying 'Not Applicable').					
12.1 PRE TENDER INFORMATION 12.1.1 Provisional Bills of Quantities [2.2] The quantities are provisional : YES					
12.1.2 Availability of construction documentation [2.3] Construction of documentation is complete: No					
93	B3.5 Previous work - dimensional accuracy			N/A	0 00
	F 0.00 V 0.00 T 0.00				
12.1.3 Interest of agents [2.4] Details: N/A					
12.1.4 Defined works area [3.1] Details: 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 at the compulsory site inspection meeting if applicable or on handing over of the site.					
12.1.5 Geotechnical investigation [3.2] Details: The report is annexed to this document. Not Applicable					
Carried To Section Summary				R	0 00
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12.1.6 Existing premises occupied [3.4] Specific requirements: The contractor, where executing repairs and renovations to existing classroom blocks that are in use and occupied, shall be limited to executing works in three classrooms at any given time. These classrooms shall be completed to the stage of first delivery before further commencing execution of works on other existing classrooms. The contractor shall make provision in his program for relocating the occupants of the building to completed sections before commencement with work on subsequent sections. The contractor shall in liaison with the occupants and as directed by the principal agent, move, temporarily store, protect, clean and later place all loose furniture and fittings, equipment, etc in their original position as necessary for the execution of the works. The contractor shall provide, maintain and remove on completion a temporary container for the proper storage of furniture, etc of at least three classrooms during the execution of the works.

12.1.7 Previous work - dimensional accuracy [3.5] Details: N/A

12.1.8 Previous work - defects [3.6] Details: N/A

12.1.9 Services - known [3.7] Details: Existing known services on the site are shown on drawings or will be pointed out on the site by the principal agent.

12.1.10 Protection of trees [3.9] Specific requirements:

12.1.11 Inspection of adjoining properties [3.11] Specific requirements:

12.1.12 Enclosure of the works [6.2] Specific requirements:

12.1.13 Offices [6.4.3] Specific requirements: The office accommodation for meetings held on site shall be insulated and ventilated, provided with electric lighting and fitted with suitable table, chairs, etc to accommodate at least twelve people.

12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.

12.1.15 Subcontractors' notice board [6.6] Specific requirements: NO

12.1.16 Water [7.2] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO

12.1.17 Electricity [7.3] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO

12.1.18 Telecommunications [7.4] Telephone YES Facsimile YES E-mail YES

94	B3.6 Previous work - defects	N/A	0 00
	F 0.00 V 0.00 T 0.00		

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12.1.19 Ablution facilities [7.5] Option A (by contractor) YES Option B (by employer) NO

12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required YES

12.1.21 Special attendance [9.2] Subcontractor (1) details: N/A
Subcontractor (2) details: N/A Subcontractor (3) details: N/A Subcontractor (4) details: N/A

12.1.22 Protection of works [11.1] Specific requirements:

12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent. Noise and dust due to repairs and renovations to existing classrooms, etc shall be contained within the areas executed at any one time and workers shall not disturb occupants of adjoining classrooms, etc.

12.1.24 Environmental disturbance [11.6] Specific requirements:

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

It is required of the Contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items B10.1 to B10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Representative/ Agent, notwithstanding the provisions of Clause A23 of 'Section 1: Preliminaries (Part A)' or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of

C1 CONTRACT DRAWINGS

*Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on bills of quantities or lump sum document
*The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of works and the manner in which they are to be executed. *A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent

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C2 GENERAL PREAMBLES

The document 'Specification of Materials and Methods to be used (PW371)' is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the Bills of Quantities / Lump Sum Document and be referred to for the full descriptions of work to be done and materials to be used.

C3 TRADES NAMES

Wherever a trade name for any product has been described in the Bills of Quantities / Lump Sum Document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior the closing date for submission of tenderers. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for.

C4 IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment (T2.2q) to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be executed from the Contract Price Adjustment Provisions (if applicable)

C5 VIEWING THE SITE IN SECURITY AREAS

The site is situated in a security area and the tenderer must arrange with the unit commander or obtain other responsible officer to obtain permission to enter the site for tendering purposes.

C6 COMMENCEMENT OF WORKS IN SECURITY AREAS

As the Works falls within a security area the Contractor must give the unit commander or other responsible officer notice before commencement of works. Should the Contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the Contractor's account

C7 ENTRANCE PERMITS TO SECURITY AREAS

As the Works falls within a security area the Contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defense Force, Police or Chief Security Officer

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C8 SECURITY CHECK OF PERSONNEL

The Principal Agent may require the Contractor to have his personnel and workmen, or a certain number of them, security classified. In the event of the Principal Agent requesting the removal of a person or persons from the Works for the security reasons, the Contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the Works and the Site and/or to any document or information relating to the Works.

C9 PROHIBITION ON TAKING OF PHOTOGRAPHS

In terms of article 119 of the Defense Act, 44 of 1957, it is prohibited to sketch or take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister. The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959.

C10 HIV/AIDS AWARENESS

C10.1: Awareness Champion

- 95 Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

F 0.00 V 0.00 T 0.00

Item 0 00

C10.2: Awareness Workshops

- 96 Selection and appointment of competent Service Provider approved by the Representative/Agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of a traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

F 0.00 V 0.00 T 0.00

Item 0 00

C10.3: Posters, Booklets, Videos, etc.

- 97 Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification

F 0.00 V 0.00 T 0.00

Item 0 00

C10.4: Access To Condoms

- 98 Provision and maintaining of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification

F 0.00 V 0.00 T 0.00

Item 0 00

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<u>C10.5: Monitoring</u>					
99	Monitoring HIV/AIDS awareness of workers, providing the Representative/Agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11 HEALTH AND SAFETY SPECIFICATION</u>					
<u>C11.1: Awareness Champion</u>					
100	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11.2: Awareness Workshops</u>					
101	Selection and appointment of competent Service Provider approved by the Representative/Agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of a traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11.3: Health and Safety Representative</u>					
102	Selection and appointment of competent Health and Safety Officer approved by the Representative/Agent, for inspections of the workplace, keeping records and report all findings to the responsible person, all in accordance to the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11.4: Appointment and Training of a Health and Safety Rep, First Aider & Fire Fighter</u>					
103	Allow for training of a health and safety rep, first aider and a fire fighter, all in accordance with the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11.5: Provision of First Aid Boxes, First Aid Equipment & Fire Fighting Equipment</u>					
104	Allow for provision of first aid box, first aid equipment and fire extinguisher all in accordance with the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
<u>C11.6: Provision of Personal Protective Equipment (PPE)</u>					
105	Allow for provision of PPE all in accordance with the Health and Safety Specification			Item	0 00
	F 0.00 V 0.00 T 0.00				
Carried To Section Summary				R	0 00
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<u>C11.7: Provision of Health and Safety Signage and Posters</u>			
106	Allow for provision of health and safety signage and posters all in accordance with the Health and Safety Specification		
	F	0.00 V	0.00 T 0.00
<u>C11.8: Provision of Well Fare Facility</u>			
107	Allow for provision of well fare facility all in accordance with the Health and Safety Specification		
	F	0.00 V	0.00 T 0.00
<u>C11.9: Close Out Requirements</u>			
108	The Principal Contractor to provide a consolidated close out Health and Safety File confirming the Health and Safety history of the project through a SHE agent		
	F	0.00 V	0.00 T 0.00

Item	0 00
Item	0 00
Item	0 00

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450 000 00

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SECTION SUMMARY

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>STRIP FOOTING FOUNDATIONS 45M2</u> <u>BILL NO. 1</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></p> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p>PREAMBLES</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature of material to be excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Dewatering of excavations</u></p> <p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 2				
Bill No. 1				
Foundations (provisional)				

		Unit	Quantity	Rate	Amount
<u>SITE CLEARANCE, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	209	10.00	2 090 00
<u>EXCAVATION, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Surface trenches	m ³	65	55.00	3 575 00
3	Reduce levels under surface beds	m ³	31	55.00	1 705 00
<u>Extra over trench and hole excavations in earth for excavation in</u>					
4	Soft rock	m ³	3	150.00	450 00
5	Hard rock	m ³	6	300.00	1 800 00
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	36	70.00	2 520 00
<u>Risk of collapse of excavations</u>					
7	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	129	10.00	1 290 00
<u>Keeping excavations free from water</u>					
8	Keeping excavations free from mud and all water other than from subterranean sources	Item			500 00
<u>FILLING, ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
9	Under floors, etc	m ³	16	60.00	960 00
10	Backfilling to trenches, holes, etc	m ³	29	60.00	1 740 00
<u>Earth filling supplied by the contractor compacted to 97% Mod AASHTO density</u>					
11	Under floors, etc	m ³	16	180.00	2 880 00
12	Backfilling to trenches, holes, etc.	m ³	4	180.00	720 00
<u>Coarse river sand filling</u>					
13	Under floors, etc	m ³	3	250.00	750 00
Carried to Collection				R	20 980 00
Section No. 2					
Bill No. 1					
Foundations (provisional)					

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SECTION NO. 2
STRIP FOOTING FOUNDATIONS 45M2
BILL NO. 1
FOUNDATIONS (PROVISIONAL)
COLLECTION

	Page No	
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	19	20 980 00
	20	5 842 00

Section No. 2
Bill No. 1
Foundations (provisional)

Carried To Section Summary

R	26 822 00
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	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 2</u> <u>STRIP FOOTING FOUNDATIONS 45M2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Cost of tests</u> <p>Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes</p> <p>The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15MPa/19mm concrete</u>					
1	m ³	3	950.00	2 850	00
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25 MPa/19mm concrete</u>					
2	m ³	26	1 300.00	33 800	00
3	m ³	11	1 300.00	14 300	00
<u>CONCRETE TESTING</u>					
4	No.	2	400.00	800	00
Carried to Collection			R	51 750	00
Section No. 2 Bill No. 2 Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
	<u>CONCRETE SUNDIRES</u>				
	<u>SMOOTH FORMWORK</u>				
5	Edges, risers, ends and reveals not exceeding 30mm high or wide	m	2	20.00	40 00
	<u>REINFORCEMENT(Provisional)</u>				
6	Y10 High Steel rod reinforcement of varying diameters in foundations (Provisional)	Tonnes	1	15 500.00	15 500 00
	<u>Fabric reinforcement</u>				
7	Type 193 fabric reinforcement in surface beds (Provisional)	m²	106	35.00	3 710 00
Carried to Collection				R	19 250 00
Section No. 2					
Bill No. 2					
Concrete, Formwork And Reinforcement					

SECTION NO. 2

STRIP FOOTING FOUNDATIONS 45M2

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

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51 750 00

23

19 250 00

Carried To Section Summary

R

71 000 00

Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 2</u> <u>STRIP FOOTING FOUNDATIONS 45M2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	1	150.00	150 00
2	One brick walls	m ²	32	300.00	9 600 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	9	5.00	45 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	347	5.00	1 735 00
Carried To Section Summary				R	11 530 00
Section No. 2 Bill No. 3 Masonry					

SECTION NO. 2
STRIP FOOTING FOUNDATIONS 45M2
SECTION SUMMARY

Bill No.		Page		
1	FOUNDATIONS (PROVISIONAL)	21	26 822	00
2	CONCRETE, FORMWORK AND REINFORCEMENT	24	71 000	00
3	MASONRY	25	11 530	00

Section No. 2
SECTION SUMMARY

Carried to Final Summary

R	109 352	00
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	Unit	Quantity	Rate	Amount	
<u>Drilling</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>Classification of material</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>GUARANTEE AND INSURANCE</u>					
<u>ESTABLISHMENT</u>					
<u>Establishment</u>					
1	Transporting to and establishment on site of necessary plant for the execution of the work and removal thereof on completion	Item		5 000	00
2	Setting up plant at pile position	Item		5 000	00
<u>PRECAST CONCRETE DRIVEN PILES</u>					
<u>Precast concrete piles suitable for the following working loads including reinforcement, couplings, etc</u>					
3	165 Diameter piles suitable for 150kN working load	m	37	1 800.00	66 600 00
<u>TEST CUBES</u>					
<u>Testing</u>					
4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	37	450.00	16 650 00
Carried to Collection				R	93 250 00
Section No. 3					
Bill No. 1					
Piling					

		Unit	Quantity	Rate	Amount
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement in continuous flight precast concrete piles</u>				
5	Y12mm Diameter bars	Tonnes	1.00	15 000.00	15 000 00
	<u>EXPOSING PILES FOR INSPECTION</u>				
	<u>Exposing piles</u>				
6	Exposing pile for inspection including excavation 200m deep in earth and backfilling	No.	37	25.00	925 00
Carried to Collection				R	15 925 00
Section No. 3					
Bill No. 1					
Piling					

SECTION NO. 3
PILED FOUNDATIONS 45M2
BILL NO. 1
PILING
COLLECTION

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27	0 00
28	93 250 00
29	15 925 00

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Section No. 3
Bill No. 1
Piling

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>PILED FOUNDATIONS 45M2</u> <u>BILL NO. 2</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></p> <p><u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature of material to be excavated</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <p><u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Dewatering of excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 3				
Bill No. 2				
Foundations (provisional)				

		Unit	Quantity	Rate	Amount
<u>SITE CLEARANCE, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	209	10.00	2 090 00
<u>EXCAVATION, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Surface trenches	m ³	65	55.00	3 575 00
3	Reduce levels under surface beds	m ³	31	55.00	1 705 00
<u>Extra over trench and hole excavations in earth for excavation in</u>					
4	Soft rock	m ³	3	150.00	450 00
5	Hard rock	m ³	6	300.00	1 800 00
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	36	70.00	2 520 00
<u>Risk of collapse of excavations</u>					
7	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	129	10.00	1 290 00
<u>Keeping excavations free from water</u>					
8	Keeping excavations free from mud and all water other than from subterranean sources	Item			500 00
<u>FILLING, ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
9	Under floors, etc	m ³	16	60.00	960 00
10	Backfilling to trenches, holes, etc	m ³	29	60.00	1 740 00
<u>Earth filling supplied by the contractor compacted to 97% Mod AASHTO density</u>					
11	Under floors, etc	m ³	16	180.00	2 880 00
12	Backfilling to trenches, holes, etc.	m ³	4	180.00	720 00
<u>Coarse river sand filling</u>					
13	Under floors, etc	m ³	3	250.00	750 00
Carried to Collection				R	20 980 00
Section No. 3					
Bill No. 2					
Foundations (provisional)					

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SECTION NO. 3
PILED FOUNDATIONS 45M2
BILL NO. 2
FOUNDATIONS (PROVISIONAL)
COLLECTION

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31	0 00
32	20 980 00
33	5 842 00

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R	26 822 00
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Section No. 3
Bill No. 2
Foundations (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 3</u> <u>PILED FOUNDATIONS 45M2</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Cost of tests</u> <p>Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes</p> <p>The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15MPa/19mm concrete</u>					
1	m³	3	950.00	2 850	00
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25 MPa/19mm concrete</u>					
2	m³	26	1 300.00	33 800	00
3	m³	11	1 300.00	14 300	00
<u>CONCRETE TESTING</u>					
4	No.	2	400.00	800	00
Carried to Collection			R	51 750	00
Section No. 3 Bill No. 3 Concrete, Formwork And Reinforcement					

SECTION NO. 3
PILED FOUNDATIONS 45M2
BILL NO. 3
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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35	51 750	00
36	19 250	00

Carried To Section Summary

R	71 000	00
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Section No. 3
Bill No. 3
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 3</u> <u>PILED FOUNDATIONS 45M2</u> <u>BILL NO. 4</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	1	150.00	150 00
2	One brick walls	m ²	32	300.00	9 600 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	9	5.00	45 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	347	5.00	1 735 00
Carried To Section Summary				R	11 530 00
Section No. 3 Bill No. 4 Masonry					

SECTION NO. 3
PILED FOUNDATIONS 45M2
SECTION SUMMARY

Bill No.		Page		
1	PILING	30	109 175	00
2	FOUNDATIONS (PROVISIONAL)	34	26 822	00
3	CONCRETE, FORMWORK AND REINFORCEMENT	37	71 000	00
4	MASONRY	38	11 530	00

Section No. 3
SECTION SUMMARY

Carried to Final Summary

R	218 527	00
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	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 1</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Cost of tests</u> <p>The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p>Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes</p> <u>REINFORCED CONCRETE</u> <u>30 Mpa/19mm concrete</u>					
1	Slab	m ³	53	1 300.00	68 900 00
2	Steps and landings	m ³	8	1 300.00	10 400 00
3	Vanity slabs, cupboard slabs, cover slabs, etc	m ³	1	1 300.00	1 300 00
<u>CONCRETE TESTING</u>					
4	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No.	2	250.00	500 00
Carried to Collection				R	81 100 00
Section No. 4 Bill No. 1 Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
<u>CONCRETE SUNDRIES</u>					
<u>SMOOTH FORMWORK</u>					
<u>Formwork to sides</u>					
5	Formwork to sides and soffits of concrete slabs and beams exceeding 3,5m and not exceeding 5m high above bearing level	m²	212	35.00	7 420 00
6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	249	35.00	8 715 00
<u>MOVEMENT JOINTS, ETC</u>					
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces</u>					
7	10mm Joints not exceeding 30mm high (Provisional)	m	21	45.00	945 00
<u>REINFORCEMENT(Provisional)</u>					
8	Y12 High Tensile Steel rod reinforcement of varying diameters in slabs (Provisional)	Tonnes	4	15 000.00	60 000 00
Carried to Collection				R	77 080 00
Section No. 4					
Bill No. 1					
Concrete, Formwork And Reinforcement					

SECTION NO. 4
45M2 UNITS
BILL NO. 1
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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40	81 100 00
41	77 080 00

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Section No. 4
Bill No. 1
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 2</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFP bricks</u>					
1	Half brick walls	m ²	174	150.00	26 100 00
2	Half brick walls in beamfilling	m ²	10	150.00	1 500 00
3	One brick walls	m ²	501	300.00	150 300 00
<u>BRICKWORK SUNDRIES</u> <u>Bagging and sealing the outer face of the inner skin of walls with 1:5 cement and sand mixture and seal with two coats 'Brixal' bitumen emulsion waterproofing coating.</u>					
4	To walls (Provisional)	m ²	484	90.00	43 560 00
<u>Joint forming material in movement joints</u>					
5	12mm Bitumen impregnated fibre board built in vertically between brick skins	m ²	7	60.00	420 00
Carried to Collection				R	221 880 00
Section No. 4 Bill No. 2 Masonry					

		Unit	Quantity	Rate	Amount
6	12mm Bitumen impregnated fibre board built in vertically through brick walls in foundations (Provisional)	m²	1	60.00	60 00
	<u>Reinforcement to brickwork</u>				
7	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	227	5.00	1 135 00
8	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	1 142	5.00	5 710 00
	<u>Prestressed fabricated lintels</u>				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	19	60.00	1 140 00
10	230 x 75mm Lintels in lengths not exceeding 3m	m	59	60.00	3 540 00
	<u>Turning pieces</u>				
11	110mm Wide turning piece to lintels, etc	m	19	20.00	380 00
12	230mm Wide turning piece to lintels, etc	m	59	20.00	1 180 00
	<u>Galvanised hoop iron cramps, ties, etc</u>				
13	2 mm Hoop iron cramp 40 mm wide and 900 mm girth, one end turned up, twice holed and screwed to wood frame and other end built into brickwork	No.	96	25.00	2 400 00
14	32 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No.	18	20.00	360 00
	<u>Air bricks etc</u>				
15	229 x 152mm Glazed clay vermin proof air bricks (Provisional)	No.	6	25.00	150 00
	<u>FIBRE-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
16	65 x 290mm Wide type 'H' sill set sloping and slightly projecting	m	43	75.00	3 225 00
Carried to Collection				R	19 280 00
Section No. 4					
Bill No. 2					
Masonry					

SECTION NO. 4
45M2 UNITS
BILL NO. 2
MASONRY
COLLECTION

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43	221 880	00
44	19 280	00

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Section No. 4
Bill No. 2
Masonry

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 3</u> <u>WATERPROOFING</u> <u>(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron embossed damp proof course</u>					
1	In walls	m ²	24	17.00	408 00
<u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u>					
2	Under surface beds	m ²	106	20.00	2 120 00
<u>JOINT SEALANTS, ETC</u> <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>					
3	10 x 10mm In expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	14	35.00	490 00
<u>Clear silicone sealant</u>					
4	In waterproofing joints between fittings and walls	m	55	20.00	1 100 00
5	In joint sealing and pointing between external aluminium window frames and facebrick surround(Provisional)	m	181	20.00	3 620 00
Carried To Section Summary				R	7 738 00
Section No. 4 Bill No. 3 Waterproofing					

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 4</u> <u>ROOF COVERINGS</u> <u>(CPAP WORK GROUP NO. 124 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Fixing</u> <p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps</p> <u>Guarantee</u> <p>The contractor will be required to provide a written guarantee, stating that : 1. The roof sheeting is of the specified thickness 2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years</p> <u>CORRUGATED METAL SHEETING AND ACCESSORIES</u> <u>0,53mm Zinalume roof sheeting steel resin coated, AZ150 minimum (150g/m2) coating mass, grade 550 (minimum yield strength of 550 Mpa) and accessories fixed to timber purlins :</u>				
1	m ²	115	180.00	20 700 00
<u>Zinalume Ridge capping:</u>				
2	m	3	110.00	330 00
3	m	3	82.00	246 00
Carried to Collection			R	21 276 00
Section No. 4 Bill No. 4 Roof Coverings				

	Unit	Quantity	Rate	Amount
<u>ROOF INSULATION</u>				
<u>SISALATION FR 405' underlay over trusses and under purlins on training tape- to be Class B/B1/2/H&V in accordance with SANS 10400 Part T</u>				
4 50mm approved High Density Polystyrene insulation bevelled insulation boards laid horizontal over engineered trusses and secured with screws through purlins	m²	115	35.00	4 025 00
			R	4 025 00

Carried to Collection

Section No. 4
Bill No. 4
Roof Coverings

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SECTION NO. 4
45M2 UNITS
BILL NO. 4
ROOF COVERINGS
COLLECTION

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47	21 276 00
48	4 025 00

Carried To Section Summary

R	25 301 00
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Section No. 4
Bill No. 4
Roof Coverings

					Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>								
<u>45M2 UNITS</u>								
<u>BILL NO. 5</u>								
<u>CARPENTRY AND JOINERY</u>								
<u>(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u>								
<u>PREAMBLES</u>								
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).								
<u>SUPPLEMENTARY PREAMBLES</u>								
<u>Proprietary products in descriptions</u>								
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent								
<u>Roof trusses</u>								
The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate								
<u>Joinery</u>								
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc								
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes								
<u>Fixing</u>								
All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used								
Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete								
Where items are described as 'bolted' the bolts have been measured elsewhere								
<u>ROOFS, ETC</u>								
<u>Sawn softwood</u>								
1	38 x 114 mm Wall plates	m	19	90.00			1 710 00	

		Unit	Quantity	Rate	Amount
<u>Sawn softwood grade 4</u>					
2	50 x 75mm Purlins	m	175	45.00	7 875 00
<u>Wrought softwood grade 4</u>					
3	76 x 76mm Splayed purlins	m	29	45.00	1 305 00
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>					
<u>The following trusses shall be 'Gangnail' or similar approved engineering designed roof trusses manufactured from sawn softwood and suitable for corrugated iron covering and gypsum plasterboard ceilings on 38 x 50mm softwood branderling</u>					
<u>(NOTE :The contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications)</u>					
4	Single pitched roof truss approximately 3400mm span between wall plates to 12 degree pitch with 450mm eaves overhang both ends.	No.	9	1 500.00	13 500 00
5	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.	Item			3 000 00
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement fascias and barge boards</u>					
6	12 X 225 mm Fascias boards	m	21	35.00	735 00
7	200 X 80 mm barge boards	m	29	35.00	1 015 00
<u>DOORS, ETC</u>					
<u>Wrought meranti doors hung to steel frames</u>					
8	40mm Framed door 813 x 2032mm high of 115mm top rails and stiles, 115mm middle rail and 212mm bottom rail, with 23 x 552mm high solid fielded bottom panel and open 1069mm high rebated all round including 12 x 12mm glazing beads on one side	No.	6	700.00	4 200 00
<u>Semi solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u>					
9	40mm Door 813 x 2032mm high	No.	18	450.00	8 100 00
				R	39 730 00
Carried to Collection					
Section No. 4					
Bill No. 5					
Carpentry And Joinery					

SECTION NO. 4

45M2 UNITS

BILL NO. 5

CARPENTRY AND JOINERY

COLLECTION

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1 710 00

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39 730 00

Carried To Section Summary

R

41 440 00

Section No. 4
Bill No. 5
Carpentry And Joinery

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 7</u> <u>IRONMONGERY</u> <u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Finishes to ironmongery</u> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <u>Fixing</u> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer</p> <u>HINGES, BOLTS, ETC</u>					
1	No.	48	45.00	2 160 00	
<u>LOCKS</u>					
2	No.	36	90.00	3 240 00	
3	No.	18	110.00	1 980 00	
<u>SUNDRIES</u> <u>Union:</u>					
4	No.	24	15.00	360 00	
Carried to Collection			R	7 740 00	
Section No. 4 Bill No. 7 Ironmongery					

		Unit	Quantity	Rate	Amount
<u>BATHROOM FITTINGS</u>					
5	Single Toilet Roll Holder - Vitreous china - 204x160x90mm with plastic Spindle	No.	6	95.00	570 00
6	Single Soap Dish Holder - Vitreous china - 170x170x100mm with plastic Spindle	No.	6	110.00	660 00
7	32mm Chromium plated stainless steel back grab rail 600mm long, plugged	No.	6	650.00	3 900 00
8	32mm Chromium plated stainless steel side grab rail , plugged	No.	6	450.00	2 700 00
Carried to Collection				R	7 830 00
Section No. 4					
Bill No. 7					
Ironmongery					

SECTION NO. 4
45M2 UNITS
BILL NO. 7
IRONMONGERY
COLLECTION

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54	7 740 00
55	7 830 00

Carried To Section Summary

R	15 570 00
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Section No. 4
Bill No. 7
Ironmongery

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>GALVANISED PRESSED STEEL DOOR FRAMES</u> <u>1,2mm Double rebated frames suitable for half brick walls</u> 1 Frame for door 813 x 2032mm high No. 18 590.00 10 620 00 <u>1,6mm Double rebated frames suitable for one brick walls</u> 2 Frame for door 813 x 2032mm high No. 6 690.00 4 140 00 <u>ALUMINIUM BALUSTRADES</u> <u>Anodised aluminium balustrades to stairs</u> 3 Allow a budgetary amount of R45 000.00 (Fourty Five Thousand Rand) for anodised aluminium raking balustrades as per the Architects specification Item 45 000 00 <u>ALUMINIUM WINDOWS, DOORS, ETC</u> <u>ALUMINIUM WINDOWS</u> <u>Note</u> <u>Refer to attached window schedules for details of windows</u> 4 Purpose made window, type W1, size 1500 x 900mm high No. 6 3 375.00 20 250 00 5 Purpose made window, type W2, size 620 x 900mm high No. 6 1 395.00 8 370 00 6 Purpose made window, type W3, size 1500 x 900mm high No. 6 3 375.00 20 250 00 7 Purpose made window, type W4, size 600 x 600 mm high No. 6 900.00 5 400 00 8 Purpose made window, type W5, size 1500 x 900 mm high No. 6 3 375.00 20 250 00 Carried to Collection R 134 280 00 Section No. 4 Bill No. 8 Metalwork					

		Unit	Quantity	Rate	Amount
9	Purpose made window, type W6, size 600 x 600 mm high	No.	6	900.00	5 400 00
Carried to Collection				R	5 400 00
Section No. 4					
Bill No. 8					
Metalwork					
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SECTION NO. 4

45M2 UNITS

BILL NO. 8

METALWORK

COLLECTION

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134 280 00

58

5 400 00

Carried To Section Summary

R

139 680 00

		Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 9</u> <u>PLASTERING</u> <u>(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>SCREEDS</u> <u>Screeds on concrete</u>						
1	25mm Thick on floors	m ²	318	45.00	14 310	00
<u>GRANOLITHIC</u> <u>Untinted granolithic, on concrete</u>						
2	40mm Thick on floors and landings	m ²	19	55.00	1 045	00
<u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>						
3	On walls	m ²	590	45.00	26 550	00
4	On concrete ceilings	m ²	212	45.00	9 540	00
5	On sloping top of sills 1200mm wide	m	43	25.00	1 075	00
<u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>						
6	On walls	m ²	519	45.00	23 355	00
Carried To Section Summary				R	75 875	00
Section No. 4 Bill No. 9 Plastering						

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>45M2 UNITS</u> <u>BILL NO. 10</u> <u>TILING</u> <u>(CPAP WORK GROUP NO. 144 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>Fixing</u> Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere <u>WALL TILING</u> <u>152 x 152 x 5mm White glazed ceramic tiles</u>				
1 On walls	m ²	3	55.00	165 00
Carried To Section Summary			R	165 00
Section No. 4 Bill No. 10 Tiling				

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u>					
<u>45M2 UNITS</u>					
<u>BILL NO. 11</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>Fixing</u>					
Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories. Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer					
<u>Chasing</u>					
Chasing pipes into new walls shall be regarded as 'building in' and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes					
<u>Stainless steel sanitary fittings</u>					
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable					
<u>Waste unions</u>					
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings					
<u>RAINWATER DISPOSAL</u>					
<u>uPVC gutters and rainwater pipes</u>					
1	100mm Half-round roof gutters	m	20	150.00	3 000 00
2	Extra over eaves gutter for stopped end	No.	8	85.00	680 00
3	Extra over eaves gutter for outlet for 75mm diameter pipe	No.	5	85.00	425 00
4	75mm Diameter rainwater pipes in continuous lengths	m	40	110.00	4 400 00
Carried to Collection				R	8 505 00
Section No. 4					
Bill No. 11					
Plumbing And Drainage					

		Unit	Quantity	Rate	Amount
5	Extra over rainwater pipe for eaves offset 750mm projection	No.	5	85.00	425 00
6	Extra over rainwater pipe for shoe	No.	5	85.00	425 00
<u>SANITARY FITTINGS</u>					
7	Stainless steel single centre bowl drop-in sink size 600mm x 1200mm. Bowl size 610 x 460 x 230mm deep with overflow, manufactured in grade 304 (18/10) stainless steel. Tap to be 15mm 102CP demand bib tap. All in accordance to relative SANS	No.	6	350.00	2 100 00
8	WHB, size 510 x 405mm with overflow and two tap hole configuration fixed to wall with and including 2 x 10mm bolts. 32 x 32mm bottle trap, chrome plated with 75mm deep seal, inlet screwed female, outlet, male for 40mm PVC. Chrome plated bottle trap with 75mm deep seal for 40mm PVC waste. 15mm chrome plated basin set pillar tap; 1 off basin waste with plug, chain, stay and back nut No. 301. Flow restriction washers to be fitted to taps. All in accordance to relative SANS	No.	6	550.00	3 300 00
9	Low level Ceramic flush toilet with close couple cistern including plumbing and drainage, installed complete	No.	6	650.00	3 900 00
10	1700 x 700 x 400mm Bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position	No.	6	2 000.00	12 000 00
<u>WASTE UNIONS, ETC</u>					
11	32mm 301 CP waste union	No.	18	110.00	1 980 00
<u>TRAPS, ETC</u>					
12	40mm Anti-vac trap	No.	6	85.00	510 00
13	32mm 340 CP bottle trap	No.	12	180.00	2 160 00
<u>TAPS, VALVES, ETC</u>					
14	Kitchen Mixer, Wall type sink mixer with aerated swivel outlet. ½" BSP male inlets. SANS 226 TYPE 1.	No.	6	250.00	1 500 00
15	WHB Pillar tap X2 with hot and cold indices. ¾" BSP male inlet. SANS 226 TYPE2.	No.	12	150.00	1 800 00
16	Bath Extended Bib tap X2 with hot and cold indices. ½" BSP male inlet.				
				R	30 100 00
Carried to Collection					
Section No. 4					
Bill No. 11					
Plumbing And Drainage					

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		Unit	Quantity	Rate	Amount
SANS 226 TYPE2.	No.	12	250.00	3 000	00
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
17	40mm Pipes	m	23	35.00	805 00
18	50mm Pipes	m	23	45.00	1 035 00
19	110mm Pipes	m	14	55.00	770 00
20	40mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	8	80.00	640 00
21	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	8	85.00	680 00
22	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	5	150.00	750 00
<u>Extra over uPVC pipes for uPVC fittings</u>					
23	40mm Adaptor	No.	9	110.00	990 00
24	50mm Adaptor	No.	9	130.00	1 170 00
25	40mm Bend	No.	45	130.00	5 850 00
26	50mm Bend	No.	27	20.00	540 00
27	110mm Bend	No.	18	40.00	720 00
28	110mm Pan connector	No.	9	65.00	585 00
29	110mm Access bend	No.	9	45.00	405 00
30	110mm 'GI two-way' vent valve	No.	9	100.00	900 00
<u>Sundries</u>					
31	Wire balloon grating in top of pipe not exceeding 100mm	No.	9	35.00	315 00
32	Testing waste pipe system	Item			1 000 00
<u>WATER SUPPLIES</u>					
<u>Class O copper pipes</u>					
33	15mm Pipes	m	25	30.00	750 00
34	22mm Pipes	m	25	35.00	875 00
<u>Extra over class O copper pipes for capillary fittings</u>					
35	15mm Fittings	No.	45	25.00	1 125 00
36	22mm Fittings	No.	45	30.00	1 350 00
				R	24 255 00
Carried to Collection					
Section No. 4 Bill No. 11 Plumbing And Drainage					

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SECTION NO. 4
45M2 UNITS
BILL NO. 11
PLUMBING AND DRAINAGE
COLLECTION

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63	30 100 00
64	24 255 00
65	44 255 00

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R

107 115 00

Section No. 4
Bill No. 11
Plumbing And Drainage

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 4</u>					
<u>45M2 UNITS</u>					
<u>BILL NO. 12</u>					
<u>PAINTWORK</u>					
<u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>PAINTWORK, ETC TO NEW WORK</u>					
<u>ON FLOATED PLASTER</u>					
<u>Prepare, stop and apply two filler coat paint 100-M370-2800 or equal approved and finish with two coats interior emulsion paint</u>					
1	On internal walls	m ²	590	55.00	32 450 00
2	On sloping top of sils 1200mm wide	m	43	55.00	2 365 00
3	On concrete ceilings	m ²	212	35.00	7 420 00
<u>Prepare, stop and apply two filler coat paint 100-M370-2800 or equal approved and finish with two coats interior emulsion paint</u>					
4	On external walls	m ²	519	55.00	28 545 00
<u>ON PLASTER BOARD</u>					
<u>One coat 'Durafill Fillercoat (M370-2700)' thinned 15% with 'An Overcoating time of 4 hours' and Finish with two coats 'Dulux Pearl glo Water Clean-up (D190-LINE)' paint or equally approved</u>					
5	On ceilings	m ²	106	55.00	5 830 00
Carried to Collection				R	76 610 00
Section No. 4					
Bill No. 12					
Paintwork					

		Unit	Quantity	Rate	Amount
<u>ON CONCRETE FLOORS</u>					
<u>Internal - A coloured, cement-based, self-levelling floor covering for application onto wood floated screeds. To produce a 2mm smooth, decorative layer that is unaffected by rising damp. For interior use only.All to manufacturers specification. In accordance with SANS 10109, SANS 50197, SANS 1083, SANS 50197</u>					
6	On floors	m²	318	55.00	17 490 00
<u>ON METAL SURFACES</u>					
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>					
7	Door frames	m²	5	55.00	275 00
				R	17 765 00

Carried to Collection
 Section No. 4
 Bill No. 12
 Paintwork

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SECTION NO. 4
45M2 UNITS
BILL NO. 12
PAINTWORK
COLLECTION

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67	76 610	00
68	17 765	00

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94 375	00
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Amount

SECTION NO. 4

45M2 UNITS

SECTION SUMMARY

Bill
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1	CONCRETE, FORMWORK AND REINFORCEMENT	42	158 180 00
2	MASONRY	45	241 160 00
3	WATERPROOFING	46	7 738 00
4	ROOF COVERINGS	49	25 301 00
5	CARPENTRY AND JOINERY	52	41 440 00
6	CEILINGS PARTITIONS AND ACCESS FLOORING	53	59 870 00
7	IRONMONGERY	56	15 570 00
8	METALWORK	59	139 680 00
9	PLASTERING	60	75 875 00
10	TILING	61	165 00
11	PLUMBING AND DRAINAGE	66	107 115 00
12	PAINTWORK	69	94 375 00

Carried to Final Summary

R

966 469 00

Section No. 4
SECTION SUMMARY

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u> <u>STRIP FOOTING FOUNDATIONS GUARD HOUSE</u> <u>BILL NO. 1</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Nature of material to be excavated</u> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <u>Carting away of excavated material</u> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <u>Dewatering of excavations</u> <p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <u>Density testing on filling</u> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 5 Bill No. 1 Foundations (provisional)				

		Unit	Quantity	Rate	Amount
<u>SITE CLEARANCE, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	30	10.00	300 00
<u>EXCAVATION, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Surface trenches	m ³	9	55.00	495 00
3	Reduce levels under surface beds	m ³	4	55.00	220 00
<u>Extra over trench and hole excavations in earth for excavation in</u>					
4	Soft rock	m ³	1	150.00	150 00
5	Hard rock	m ³	1	300.00	300 00
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	3	70.00	210 00
<u>Risk of collapse of excavations</u>					
7	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	25	10.00	250 00
<u>Keeping excavations free from water</u>					
8	Keeping excavations free from mud and all water other than from subterranean sources	Item			500 00
<u>FILLING, ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
9	Under floors, etc	m ³	1	60.00	60 00
10	Backfilling to trenches, holes, etc	m ³	6	60.00	360 00
<u>Earth filling supplied by the contractor compacted to 97% Mod AASHTO density</u>					
11	Under floors, etc	m ³	1	180.00	180 00
12	Backfilling to trenches, holes, etc.	m ³	1	180.00	180 00
Carried to Collection				R	3 205 00
Section No. 5					
Bill No. 1					
Foundations (provisional)					

		Unit	Quantity	Rate	Amount
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m²	6	35.00	210 00
	<u>Prescribed density tests on filling</u>				
14	'Modified AASHTO Density' test on fill material	No.	1	250.00	250 00
15	'Field Density' test including 'Optimum Moisture Content' (four readings per test) on layer work	No.	1	180.00	180 00
	<u>PROTECTION AGAINST TERMITES</u>				
	<u>Soil insecticide</u>				
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m²	6	12.00	72 00
Carried to Collection				R	712 00
Section No. 5 Bill No. 1 Foundations (provisional)					

SECTION NO. 5
STRIP FOOTING FOUNDATIONS GUARD HOUSE
BILL NO. 1
FOUNDATIONS (PROVISIONAL)
COLLECTION

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72	3 205 00
73	712 00

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Section No. 5
Bill No. 1
Foundations (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 5</u>					
<u>STRIP FOOTING FOUNDATIONS GUARD HOUSE</u>					
<u>BILL NO. 2</u>					
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>Cost of tests</u>					
Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trail mixes					
The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)					
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25 MPa/19mm concrete</u>					
1	Strip footings(Provisional)	m³	2	1 300.00	2 600 00
2	Surface beds cast in panels on waterproofing	m³	1	1 300.00	1 300 00
<u>CONCRETE TESTING</u>					
3	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No.	1	250.00	250 00
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a power float</u>					
4	Surface beds cast in panels on waterproofing	m²	6	20.00	120 00
Carried to Collection				R	4 270 00
Section No. 5					
Bill No. 2					
Concrete, Formwork And Reinforcement					

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SECTION NO. 5
STRIP FOOTING FOUNDATIONS GUARD HOUSE
BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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Page No

75	4 270	00
76	2 710	00

Carried To Section Summary

R	6 980	00
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Section No. 5
Bill No. 2
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 5</u> <u>STRIP FOOTING FOUNDATIONS GUARD HOUSE</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	2	150.00	300 00
2	One brick walls	m ²	8	300.00	2 400 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	20	5.00	100 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	89	5.00	445 00
Carried To Section Summary				R	3 245 00
Section No. 5 Bill No. 3 Masonry					

SECTION NO. 5
STRIP FOOTING FOUNDATIONS GUARD HOUSE
SECTION SUMMARY

Bill No.		Page		
1	FOUNDATIONS (PROVISIONAL)	74	3 917	00
2	CONCRETE, FORMWORK AND REINFORCEMENT	77	6 980	00
3	MASONRY	78	3 245	00

Section No. 5
SECTION SUMMARY

Carried to Final Summary

R	14 142	00
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	Unit	Quantity	Rate	Amount	
<u>Drilling</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>Classification of material</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>GUARANTEE AND INSURANCE</u>					
<u>ESTABLISHMENT</u>					
<u>Establishment</u>					
1	Transporting to and establishment on site of necessary plant for the execution of the work and removal thereof on completion	Item		5 000	00
2	Setting up plant at pile position	Item		5 000	00
<u>PRECAST CONCRETE DRIVEN PILES</u>					
<u>Precast concrete piles suitable for the following working loads including reinforcement, couplings, etc</u>					
3	165 Diameter piles suitable for 150kN working load	m	8	1 800.00	14 400 00
<u>TEST CUBES</u>					
<u>Testing</u>					
4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	8	450.00	3 600 00
Carried to Collection				R	28 000 00
Section No. 6					
Bill No. 1					
Piling					

		Unit	Quantity	Rate	Amount
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>High tensile steel reinforcement in continuous flight precast concrete piles</u>					
5	Y12mm Diameter bars	Kg	50.00	25.00	1 250 00
<u>EXPOSING PILES FOR INSPECTION</u>					
<u>Exposing piles</u>					
6	Exposing pile for inspection including excavation 200m deep in earth and backfilling	No.	8	25.00	200 00
Carried to Collection				R	1 450 00
Section No. 6					
Bill No. 1					
Piling					

SECTION NO. 6
PILED FOUNDATIONS GUARD HOUSE
BILL NO. 1
PILING
COLLECTION

	Page No	
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	81	28 000 00
	82	1 450 00

Section No. 6
Bill No. 1
Piling

Carried To Section Summary

R	29 450 00
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 6</u> <u>PILED FOUNDATIONS GUARD HOUSE</u> <u>BILL NO. 2</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></p> <p><u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature of material to be excavated</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <p><u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Dewatering of excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 6				
Bill No. 2				
Foundations (provisional)				

		Unit	Quantity	Rate	Amount
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m²	6	35.00	210 00
	<u>Prescribed density tests on filling</u>				
14	'Modified AASHTO Density' test on fill material	No.	1	250.00	250 00
15	'Field Density' test including 'Optimum Moisture Content' (four readings per test) on layer work	No.	1	180.00	180 00
	<u>PROTECTION AGAINST TERMITES</u>				
	<u>Soil insecticide</u>				
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m²	6	12.00	72 00
Carried to Collection				R	712 00
Section No. 6					
Bill No. 2					
Foundations (provisional)					

SECTION NO. 6
PILED FOUNDATIONS GUARD HOUSE
BILL NO. 2
FOUNDATIONS (PROVISIONAL)
COLLECTION

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84	0 00
85	3 205 00
86	712 00

Carried To Section Summary

R	3 917 00
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Section No. 6
Bill No. 2
Foundations (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 6</u>					
<u>PILED FOUNDATIONS GUARD HOUSE</u>					
<u>BILL NO. 3</u>					
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>Cost of tests</u>					
Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes					
The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)					
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25 MPa/19mm concrete</u>					
1	Strip footings(Provisional)	m ³	2	1 300.00	2 600 00
2	Surface beds cast in panels on waterproofing	m ³	1	1 300.00	1 300 00
3	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No.	1	250.00	250 00
<u>CONCRETE TESTING</u>					
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a power float</u>					
4	Surface beds cast in panels on waterproofing	m ²	6	20.00	120 00
Carried to Collection				R	4 270 00
Section No. 6					
Bill No. 3					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
5	Y10 High Steel rod reinforcement of varying diameters in foundations (Provisional)	Kg	100	25.00	2 500 00
	<u>REINFORCEMENT(Provisional)</u>				
	<u>Fabric reinforcement</u>				
6	Type 193 fabric reinforcement in surface beds (Provisional)	m²	6	35.00	210 00
Carried to Collection				R	2 710 00
Section No. 6					
Bill No. 3					
Concrete, Formwork And Reinforcement					

SECTION NO. 6

PILED FOUNDATIONS GUARD HOUSE

BILL NO. 3

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

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4 270 00

89

2 710 00

Carried To Section Summary

R

6 980 00

Section No. 6

Bill No. 3

Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 6</u> <u>PILED FOUNDATIONS GUARD HOUSE</u> <u>BILL NO. 4</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	2	150.00	300 00
2	One brick walls	m ²	8	300.00	2 400 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	20	5.00	100 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	89	5.00	445 00
Carried To Section Summary				R	3 245 00
Section No. 6 Bill No. 4 Masonry					

SECTION NO. 6
PILED FOUNDATIONS GUARD HOUSE
SECTION SUMMARY

Bill No.		Page		
1	PILING	83	29 450	00
2	FOUNDATIONS (PROVISIONAL)	87	3 917	00
3	CONCRETE, FORMWORK AND REINFORCEMENT	90	6 980	00
4	MASONRY	91	3 245	00

Section No. 6
SECTION SUMMARY

Carried to Final Summary

R	43 592	00
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		Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>					
<u>TOP STRUCTURE GUARD HOUSE</u>					
<u>BILL NO. 1</u>					
<u>MASONRY</u>					
<u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>BLOCKWORK</u>					
<u>Cement mortar</u>					
Unless otherwise described, all blockwork shall be built in 1:5 cement mortar					
<u>BLOCKWORK IN SUPERSTRUCTURE</u>					
<u>Blockwork in class ? mortar</u>					
1	140mm Walls	m ²	28	130.00	3 640 00
2	140mm walls in beamfilling	m ²	1	65.00	65 00
<u>BRICKWORK SUNDRIES</u>					
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 140 mm wide well lapped at all angles and passings and built into block walls(Provisional)	m	80	5.00	400 00
<u>Prestressed fabricated lintels</u>					
4	140 x 75mm Lintels in lengths not exceeding 3m	m	5	60.00	300 00
<u>Galvanised hoop iron cramps, ties, etc</u>					
5	2 mm Hoop iron cramp 40 mm wide and 900 mm girth, one end turned up, twice holed and screwed to wood frame and other end built into brickwork	No.	8	25.00	200 00
6	32 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No.	6	20.00	120 00
Carried to Collection				R	4 725 00
Section No. 7					
Bill No. 1					
Masonry					

	Unit	Quantity	Rate	Amount
<u>FIBRE-CEMENT WINDOW SILLS</u>				
<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
7 65 x 290mm Wide type 'H' sill set sloping and slightly projecting	m	4	75.00	300 00
			R	300 00

Section No. 7

Bill No. 1

Masonry

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SECTION NO. 7

TOP STRUCTURE GUARD HOUSE

BILL NO. 1

MASONRY

COLLECTION

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934 725 00

94300 00

Carried To Section Summary

R5 025 00

Section No. 7

Bill No. 1

Masonry

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>					
<u>TOP STRUCTURE GUARD HOUSE</u>					
<u>BILL NO. 2</u>					
<u>WATERPROOFING</u>					
<u>(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>DAMPPROOFING OF WALLS AND FLOORS</u>					
<u>One layer of 375 micron embossed damp proof course</u>					
1	In walls	m ²	1	17.00	17 00
<u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u>					
2	Under surface beds	m ²	6	20.00	120 00
<u>JOINT SEALANTS, ETC</u>					
<u>Clear silicone sealant</u>					
3	In waterproofing joints between brickwork or fittings	m	1	20.00	20 00
4	In joint sealing and pointing between external window frames and brick surround	m	8	20.00	160 00
Carried To Section Summary				R	317 00
Section No. 7					
Bill No. 2					
Waterproofing					

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		Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u> <u>TOP STRUCTURE GUARD HOUSE</u> <u>BILL NO. 3</u> <u>ROOF COVERINGS</u> <u>(CPAP WORK GROUP NO. 124 UNLESS OTHERWISE STATED)</u> <u>0,53mm Zincalume roof sheeting steel resin coated, AZ150 minimum (150g/m2) coating mass, grade 550 (minimum yield strength of 550 Mpa) and accessories fixed to timber purlins :</u>					
1	Roof covering with pitch not exceeding 25°	m²	15	180.00	2 700 00
<u>Zincalume Ridge capping:</u>					
2	Ridge capping 460mm girth	m	4	110.00	440 00
<u>ROOF INSULATION</u> <u>'SISALATION FR 405' underlay over trusses and under purlins on training tape - to be Class B/B1/2/H&V. in accordance with SANS 10400 Part T</u>					
3	50mm approved High Density Polystyrene Insulation beveled insulation boards laid horizontally over on engineered trusses and secured with screws through purlins.	m²	15	35.00	525 00
Carried To Section Summary				R	3 665 00
Section No. 7 Bill No. 3 Roof Coverings					

		Unit	Quantity	Rate	Amount
<u>ROOFS, ETC</u>					
<u>Sawn softwood</u>					
1	38 x 114mm Wall plates	m	5	90.00	450 00
<u>Sawn softwood grade 4</u>					
2	50 x 75mm Purlins	m	34	45.00	1 530 00
<u>Wrought softwood grade 4</u>					
3	76 x 76mm Purlins	m	7	45.00	315 00
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>					
<u>The following trusses shall be 'Gangnail' or similar approved engineering designed roof trusses manufactured from sawn softwood and suitable for corrugated iron covering and gypsum plasterboard ceilings on 38 x 50mm softwood branderling</u>					
<u>(NOTE :The contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications)</u>					
4	Single pitched roof trusses approximately 2990mm span between wall plates to 19 degree pitch with 450 mm eaves overhang both ends.	No.	3	700.00	2 100 00
5	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's	Item			350 00
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement fascias and barge boards</u>					
6	12 X 225 mm Fascias boards	m	15	35.00	525 00
<u>DOORS, ETC</u>					
<u>FRAMED FRAMES ETC</u>					
<u>Wrought meranti doors hung to steel frames</u>					
7	40mm Framed door 813 x 2032mm high of 115mm top rail and stiles, 115mm middle rail and 212 mm bottom rail, with 23 x 552mm high solid fielded bottom panel and open top panel 1069mm high rebated all round including 12 x 12mm glazing beads on one side	No.	1	700.00	700 00
				R	
Carried to Collection					5 970 00
Section No. 7					
Bill No. 4					
Carpentry And Joinery					

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	Unit	Quantity	Rate	Amount
<u>Semi solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u> 8 40mm Door 813 x 2032mm high	No.	1	450.00	450 00
Carried to Collection			R	450 00
Section No. 7 Bill No. 4 Carpentry And Joinery				
				100

SECTION NO. 7

TOP STRUCTURE GUARD HOUSE

BILL NO. 4

CARPENTRY AND JOINERY

COLLECTION

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98	0 00
99	5 970 00
100	450 00

Section No. 7

Bill No. 4

Carpentry And Joinery

Carried To Section Summary

R6 420 00

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u> <u>TOP STRUCTURE GUARD HOUSE</u> <u>BILL NO. 6</u> <u>IRONMONGERY</u> <u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Finishes to ironmongery</u> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <u>Fixing</u> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer</p> <u>HINGES, BOLTS, ETC</u>				
1	No.	4	45.00	180 00
<u>LOCKS</u>				
2	No.	1	90.00	90 00
3	No.	1	110.00	110 00
<u>SUNDRIES</u>				
4	No.	2	15.00	30 00
Carried to Collection			R	410 00
Section No. 7 Bill No. 6 Ironmongery				

	Unit	Quantity	Rate	Amount
BATHROOM FITTINGS 5 Single Toilet Roll Holder - Vitreous china - 204x160x90mm with plastic Spindle	No.	1	95.00	95 00
			R	95 00

Section No. 7
Bill No. 6
Ironmongery

Carried to Collection

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SECTION NO. 7
TOP STRUCTURE GUARD HOUSE
BILL NO. 6
IRONMONGERY
COLLECTION

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104	95 00

Carried To Section Summary

R	505 00
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Section No. 7
Bill No. 6
Ironmongery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u> <u>TOP STRUCTURE GUARD HOUSE</u> <u>BILL NO. 7</u> <u>METALWORK</u> <u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) . <u>GALVANISED PRESSED STEEL DOOR FRAMES</u> <u>1,2mm Double rebated frames suitable for half brick walls</u> 1 Frame for door 813 x 2032mm high No. 1 590.00 590 00 <u>1,6mm Double rebated frames suitable for one brick walls</u> 2 Frame for door 813 x 2032mm high No. 1 690.00 690 00 <u>ALUMINIUM WINDOWS, DOORS, ETC</u> <u>Note</u> <u>Refer to attached window schedules for details of windows</u> 3 Purpose made window size 600 x 600mm high No. 1 720.00 720 00 4 Purpose made window size 1200 x 1500mm high No. 1 3 600.00 3 600 00				
Carried To Section Summary			R	5 600 00
Section No. 7 Bill No. 7 Metalwork				

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>					
<u>TOP STRUCTURE GUARD HOUSE</u>					
<u>BILL NO. 8</u>					
<u>PLASTERING</u>					
<u>(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>SCREEDS</u>					
<u>Screeds on concrete</u>					
1	40mm Thick on floors	m ²	6	45.00	270 00
<u>GRANOLITHIC</u>					
<u>Untinted granolithic, on concrete</u>					
2	40mm Thick on floors and landings	m ²	1	55.00	55 00
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
3	On walls	m ²	35	45.00	1 575 00
<u>EXTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
4	On walls	m ²	25	45.00	1 125 00
Carried To Section Summary				R	3 025 00
Section No. 7					
Bill No. 8					
Plastering					

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u> <u>TOP STRUCTURE GUARD HOUSE</u> <u>BILL NO. 9</u> <u>TILING</u> <u>(CPAP WORK GROUP NO. 144 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>Fixing</u> Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere <u>WALL TILING</u> <u>152 x 152 x 5mm White glazed ceramic tiles</u>				
1 On walls	m ²	1	55.00	55 00
Carried To Section Summary			R	55 00
Section No. 7 Bill No. 9 Tiling				

		Unit	Quantity	Rate	Amount
	outlet, male for 40mm PVC. Chrome plated bottle trap with 75mm deep seal for 40mm PVC waste. 15mm chrome plated basin set pillar tap; 1 off basin waste with plug, chain, stay and back nut No.301. Flow restriction washers to be fitted to taps. All in accordance to relative SANS	No.	1	350.00	350 00
3	Low level Ceramic flush toilet with close couple cistern including plumbing and drainage, installed complete	No.	1	550.00	550 00
	<u>WASTE UNIONS, ETC</u>				
4	32mm 301 CP waste union	No.	1	110.00	110 00
	<u>TRAPS, ETC</u>				
5	40mm Anti-vac trap	No.	1	85.00	85 00
	<u>TAPS, VALVES, ETC</u>				
6	WHB Pillar tap X2 with hot and cold indices. ¾” BSP male inlet. SANS 226 TYPE2.	No.	1	130.00	130 00
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
7	50mm Pipes	m	2	45.00	90 00
8	110mm Pipes	m	3	55.00	165 00
9	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	3	85.00	255 00
10	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	1	150.00	150 00
	<u>Extra over uPVC pipes for uPVC fittings</u>				
11	50mm Adaptor	No.	1	130.00	130 00
12	50mm Bend	No.	1	20.00	20 00
13	110mm Bend	No.	2	40.00	80 00
14	110mm Pan connector	No.	1	65.00	65 00
15	110mm Access Bend	No.	1	45.00	45 00
16	110mm 'GI two-way' vent valve	No.	1	100.00	100 00
	<u>Sundries</u>				
17	Wire balloon grating in top of pipe not exceeding 100mm	No.	1	35.00	35 00
	Carried to Collection			R	2 360 00
	Section No. 7 Bill No. 10 Plumbing And Drainage				

110

		Unit	Quantity	Rate	Amount
	<u>WATER SUPPLIES</u>				
	<u>Class O copper pipes</u>				
18	15mm Pipes	m	2	30.00	60 00
19	22mm Pipes	m	2	35.00	70 00
	<u>Extra over class O copper pipes for capillary fittings</u>				
20	15mm Fittings	No.	2	25.00	50 00
21	22mm Fittings	No.	2	30.00	60 00
	<u>Extra over class O copper pipes for conex compression fittings</u>				
22	15mm Fittings	No.	2	25.00	50 00
23	22mm Fittings	No.	2	30.00	60 00
	<u>Copper overflow and service pipes</u>				
24	15mm Service pipes 350 mm girth	No.	1	35.00	35 00
25	20mm Service pipes 350 mm girth	No.	1	40.00	40 00
Carried to Collection				R	425 00
Section No. 7					
Bill No. 10					
Plumbing And Drainage					

SECTION NO. 7
TOP STRUCTURE GUARD HOUSE
BILL NO. 10
PLUMBING AND DRAINAGE
COLLECTION

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110	2 360 00
111	425 00

Section No. 7
Bill No. 10
Plumbing And Drainage

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R	2 810 00
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	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 7</u> <u>TOP STRUCTURE GUARD HOUSE</u> <u>BILL NO. 11</u> <u>PAINTWORK</u> <u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) . <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. All products are to be SABS approved. <u>PAINTWORK, ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare,stop and apply two filler coat of paint 100-M370-2800 or equal approved and finish with two coats interior emulsion paint</u>					
1	m ²	35	55.00	1 925	00
<u>Prepare,stop and apply two filler coat of paint 100-M370-2800 or equal approved and finish with two coats interior emulsion paint</u>					
2	m ²	25	55.00	1 375	00
<u>ON PLASTER BOARD</u> <u>One coat Fillercoat' thinned 15% with 'An Overcoating time of 4 hours' and Finish with two coats Pearl glo Water Clean-up (D190-LINE)' paint or equally approved</u>					
3	m ²	6	55.00	330	00
<u>ON CONCRETE FLOORS</u> <u>Internal - A coloured, cement-based, self-levelling floor covering for application onto wood floated screeds. To produce a 2mm smooth, decorative layer that is unaffected by rising damp. For interior use only.All to manufacturers specification. In accordance with SANS 10109, SANS 50197, SANS 1083, SANS 50197</u>					
4	m ²	6	55.00	330	00
			R	3 960	00
Carried to Collection					
Section No. 7 Bill No. 11 Paintwork					

		Unit	Quantity	Rate	Amount
<u>ON METAL SURFACES</u>					
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>					
5	Door frames	m²	4	55.00	220 00
Carried to Collection				R	220 00
Section No. 7					
Bill No. 11					
Paintwork					

SECTION NO. 7
TOP STRUCTURE GUARD HOUSE
BILL NO. 11
PAINTWORK
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114	220 00

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Section No. 7
Bill No. 11
Paintwork

SECTION NO. 7

TOP STRUCTURE GUARD HOUSE

SECTION SUMMARY

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1	MASONRY	95	5 025 00
2	WATERPROOFING	96	317 00
3	ROOF COVERINGS	97	3 665 00
4	CARPENTRY AND JOINERY	101	6 420 00
5	CEILINGS PARTITIONS AND ACCESS FLOORING	102	1 590 00
6	IRONMONGERY	105	505 00
7	METALWORK	106	5 600 00
8	PLASTERING	107	3 025 00
9	TILING	108	55 00
10	PLUMBING AND DRAINAGE	112	2 810 00
11	PAINTWORK	115	4 180 00

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33 192 00

Section No. 7
SECTION SUMMARY

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 8</u> <u>STRIP FOOTING OFFICE UNIT</u> <u>BILL NO. 1</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></p> <p><u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature of material to be excavated</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <p><u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Dewatering of excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 8				
Bill No. 1				
Foundations (provisional)				

		Unit	Quantity	Rate	Amount
<u>SITE CLEARANCE, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	61	10.00	610 00
<u>EXCAVATION, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Surface trenches	m ³	16	55.00	880 00
3	Reduce levels under surface beds	m ³	9	55.00	495 00
<u>Extra over trench and hole excavations in earth for excavation in</u>					
4	Soft rock	m ³	2	150.00	300 00
5	Hard rock	m ³	1	300.00	300 00
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	7	70.00	490 00
<u>Risk of collapse of excavations</u>					
7	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	42	10.00	420 00
<u>Keeping excavations free from water</u>					
8	Keeping excavations free from mud and all water other than from subterranean sources	Item			500 00
<u>FILLING, ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
9	Under floors, etc	m ³	5	60.00	300 00
10	Backfilling to trenches, holes, etc	m ³	9	60.00	540 00
<u>Earth filling supplied by the contractor compacted to 97% Mod AASHTO density</u>					
11	Under floors, etc	m ³	3	180.00	540 00
12	Backfilling to trenches, holes, etc.	m ³	1	180.00	180 00
<u>Coarse river sand filling supplied by the contractor</u>					
13	Under floors, et	m ³	5	280.00	1 400 00
Carried to Collection				R	6 955 00
Section No. 8					
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Foundations (provisional)					

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		Unit	Quantity	Rate	Amount
	<u>Compaction of surfaces</u>				
14	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m²	19	35.00	665 00
	<u>Prescribed density tests on filling</u>				
15	'Modified AASHTO Density' test on fill material	No.	1	250.00	250 00
16	'Field Density' test including 'Optimum Moisture Content' (four readings per test) on layer work	No.	1	180.00	180 00
	<u>PROTECTION AGAINST TERMITES</u>				
	<u>Soil insecticide</u>				
17	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m²	19	12.00	228 00
Carried to Collection				R	1 323 00
Section No. 8 Bill No. 1 Foundations (provisional)					
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STRIP FOOTING OFFICE UNIT
BILL NO. 1
FOUNDATIONS (PROVISIONAL)
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118	6 955 00
119	1 323 00

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Section No. 8
Bill No. 1
Foundations (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 8</u> <u>STRIP FOOTING OFFICE UNIT</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Cost of tests</u> <p>Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes</p> <p>The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15 MPa/19mm concrete</u>					
1	Surface blinding under strip footings and bases etc	m ³	1	950.00	950 00
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25 MPa/19mm concrete</u>					
2	Strip footings(Provisional)	m ³	4	1 300.00	5 200 00
3	Surface beds cast in panels on waterproofing	m ³	2	1 300.00	2 600 00
<u>CONCRETE TESTING</u>					
4	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No.	1	250.00	250 00
Carried to Collection				R	9 000 00
Section No. 8 Bill No. 2 Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a power float</u>					
5	Surface beds cast in panels on waterproofing	m²	19	20.00	380 00
<u>REINFORCEMENT(Provisional)</u>					
6	High Steel rod reinforcement of varying diameters in foundations (Provisional)	Tonnes	1	15 500.00	15 500 00
<u>Fabric reinforcement</u>					
7	Type 193 fabric reinforcement in surface beds (Provisional)	m²	19	35.00	665 00
Carried to Collection				R	16 545 00
Section No. 8					
Bill No. 2					
Concrete, Formwork And Reinforcement					

SECTION NO. 8
STRIP FOOTING OFFICE UNIT
BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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122	16 545 00

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Section No. 8
Bill No. 2
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 8</u> <u>STRIP FOOTING OFFICE UNIT</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick <u>Cement mortar</u> Unless otherwise described, all brickwork shall be built in 1:5 cement mortar <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	3	150.00	450 00
2	One brick walls	m ²	13	300.00	3 900 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	29	5.00	145 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	147	5.00	735 00
Carried To Section Summary				R	5 230 00
Section No. 8 Bill No. 3 Masonry					

SECTION NO. 8

STRIP FOOTING OFFICE UNIT

SECTION SUMMARY

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1	FOUNDATIONS (PROVISIONAL)	120	8 278	00
2	CONCRETE, FORMWORK AND REINFORCEMENT	123	25 545	00
3	MASONRY	124	5 230	00

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SECTION SUMMARY

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39 053 00

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 9</u> <u>PILED FOUNDATIONS OFFICE UNIT</u> <u>BILL NO. 1</u> <u>FOUNDATIONS (PROVISIONAL)</u> <u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></p> <p><u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature of material to be excavated</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'</p> <p><u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Dewatering of excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p>				
Carried to Collection			R	0 00
Section No. 9				
Bill No. 1				
Foundations (provisional)				

		Unit	Quantity	Rate	Amount
	<u>Compaction of surfaces</u>				
14	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m²	19	35.00	665 00
	<u>Prescribed density tests on filling</u>				
15	'Modified AASHTO Density' test on fill material	No.	1	250.00	250 00
16	'Field Density' test including 'Optimum Moisture Content' (four readings per test) on layer work	No.	1	180.00	180 00
	<u>PROTECTION AGAINST TERMITES</u>				
	<u>Soil insecticide</u>				
17	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m²	19	12.00	228 00
Carried to Collection				R	1 323 00
Section No. 9 Bill No. 1 Foundations (provisional)					

SECTION NO. 9
PILED FOUNDATIONS OFFICE UNIT
BILL NO. 1
FOUNDATIONS (PROVISIONAL)
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Section No. 9
Bill No. 1
Foundations (provisional)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 9</u> <u>PILED FOUNDATIONS OFFICE UNIT</u> <u>BILL NO. 2</u> <u>PILING</u> <u>(CPAP WORK GROUP NO. 106 UNLESS OTHERWISE STATED)</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Indemnity</u></p> <p>The contractor shall take full responsibility for piling work and shall guarantee that piling work will support the calculated loads laid down by the engineer without injurious settlement. The actual lengths of piles shall be determined on site by the contractor in consultation with the engineer who will give all assistance possible. This does not in any way relieve the contractor of his responsibility or obligation to provide the specified guarantee. The contractor shall indemnify the employer against any injury to or death of any person and all loss or damage to all structures resulting from the failure of any pile. In the event of the failure of a pile, the contractor shall make good such pile and all consequent damage at his own expense. The contractor shall insure by means of a policy, approved by the principal agent, against risks arising out of the responsibilities, guarantee and indemnities specified. The contractor shall pay all premiums in respect of this insurance policy.</p> <p><u>Scope of work</u></p> <p>The work comprises the installation of precast concrete piles. The contractor is referred to drawing No ? issued together with these bills of quantities in order to acquaint himself fully with the nature and scope of the work? ? The work comprises the design and installation of ? piles. ?Piles are to be installed subsequent to the site being excavated or filled to the correct levels?</p>				
Carried to Collection			R	0 00
Section No. 9				
Bill No. 2				
Piling				

	Unit	Quantity	Rate	Amount	
<u>Drilling</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>Classification of material</u>					
'Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which would normally require drilling, wedging and splitting or the use of explosives. 'Earth' shall mean all ground other than that classified as 'hard rock' and shall include made-up ground and loose stones or pieces of concrete not exceeding 0,03m3 in volume as well as hard material the removal of which would normally warrant the use of pneumatic tools and which includes hard shale, ferricite, compact oukclip and material of similar hardness.					
<u>GUARANTEE AND INSURANCE</u>					
<u>ESTABLISHMENT</u>					
<u>Establishment</u>					
1	Transporting to and establishment on site of necessary plant for the execution of the work and removal thereof on completion	Item		5 000	00
2	Setting up plant at pile position	Item		5 000	00
<u>PRECAST CONCRETE DRIVEN PILES</u>					
<u>Precast concrete piles suitable for the following working loads including reinforcement, couplings, etc</u>					
3	165 Diameter piles suitable for 150kN working load	m	8	1 800.00	14 400 00
<u>TEST CUBES</u>					
<u>Testing</u>					
4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	8	450.00	3 600 00
Carried to Collection				R	28 000 00
Section No. 9					
Bill No. 2					
Piling					

		Unit	Quantity	Rate	Amount
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>High tensile steel reinforcement in continuous flight precast concrete piles</u>					
5	Y12mm Diameter bars	Tonnes	1.00	15 500.00	15 500 00
<u>EXPOSING PILES FOR INSPECTION</u>					
<u>Exposing piles</u>					
6	Exposing pile for inspection including excavation 200m deep in earth and backfilling	No.	8	25.00	200 00
Carried to Collection				R	15 700 00
Section No. 9					
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Piling					

SECTION NO. 9
PILED FOUNDATIONS OFFICE UNIT
BILL NO. 2
PILING
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Section No. 9
Bill No. 2
Piling

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 9</u> <u>PILED FOUNDATIONS OFFICE UNIT</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Cost of tests</u> <p>Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trial mixes</p> <p>The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15 MPa/19mm concrete</u>					
1	Surface blinding under strip footings and bases etc	m ³	1	950.00	950 00
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25 MPa/19mm concrete</u>					
2	Strip footings(Provisional)	m ³	4	1 300.00	5 200 00
3	Surface beds cast in panels on waterproofing	m ³	2	1 300.00	2 600 00
4	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No.	1	250.00	250 00
Carried to Collection				R	9 000 00
Section No. 9 Bill No. 3 Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
<u>CONCRETE TESTING</u>					
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a power float</u>					
5	Surface beds cast in panels on waterproofing	m²	19	20.00	380 00
6	High Steel rod reinforcement of varying diameters in foundations (Provisional)	Tonnes	1	15 500.00	15 500 00
<u>REINFORCEMENT(Provisional)</u>					
<u>Fabric reinforcement</u>					
7	Type 193 fabric reinforcement in surface beds (Provisional)	m²	19	35.00	665 00
Carried to Collection				R	16 545 00
Section No. 9					
Bill No. 3					
Concrete, Formwork And Reinforcement					

SECTION NO. 9
PILED FOUNDATIONS OFFICE UNIT
BILL NO. 3
CONCRETE, FORMWORK AND REINFORCEMENT
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Section No. 9
Bill No. 3
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 9</u> <u>PILED FOUNDATIONS OFFICE UNIT</u> <u>BILL NO. 4</u> <u>MASONRY</u> <u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>BRICKWORK</u> <u>Sizes in descriptions</u> <p>Where sizes in descriptions are given in brick units, 'one brick' shall be the length and 'half brick' the width of a brick</p> <u>Cement mortar</u> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <u>BRICKWORK</u> <u>Brickwork of NFX bricks in foundations (Provisional)</u>					
1	Half brick walls	m ²	3	150.00	450 00
2	One brick walls	m ²	13	300.00	3 900 00
<u>Reinforcement to brickwork</u>					
3	Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	29	5.00	145 00
4	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls(Provisional)	m	147	5.00	735 00
Carried To Section Summary				R	5 230 00
Section No. 9 Bill No. 4 Masonry					

SECTION NO. 9
PILED FOUNDATIONS OFFICE UNIT
SECTION SUMMARY

Bill No.		Page		
1	FOUNDATIONS (PROVISIONAL)	129	8 278	00
2	PILING	133	43 700	00
3	CONCRETE, FORMWORK AND REINFORCEMENT	136	25 545	00
4	MASONRY	137	5 230	00

Carried to Final Summary

R	82 753	00
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Section No. 9
SECTION SUMMARY

	Unit	Quantity	Rate	Amount	
<u>SECTION NO.10</u>					
<u>TOP STRUCTURE OFFICE UNIT</u>					
<u>BILL NO. 1</u>					
<u>MASONRY</u>					
<u>(CPAP WORK GROUP NO. 118 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>BRICKWORK</u>					
<u>Cement mortar</u>					
Unless otherwise described, all blockwork shall be built in 1:5 cement mortar					
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar</u>					
1	Half brick walls	m ²	7	150.00	1 050 00
2	Half brick walls to beamfilling	m ²	3	150.00	450 00
3	One brick walls to gable ends	m ²	5	300.00	1 500 00
4	One brick wall of two half brick skins bagged and sealed	m ²	38	300.00	11 400 00
<u>BRICKWORK SUNDRIES</u>					
<u>Reinforcement to brickwork</u>					
5	Approved high tensile steel brick reinforcement 140 mm wide well lapped at all angles and passings and built into block walls(Provisional)	m	177	5.00	885 00
6	Approved high tensile steel brick reinforcement 70 mm wide well lapped at all angles and passings and built into block walls(Provisional)	m	28	5.00	140 00
<u>Prestressed fabricated lintels</u>					
7	140 x 75mm Lintels in lengths not exceeding 3m	m	8	60.00	480 00
Carried to Collection				R	15 905 00
Section No. 10					
Bill No. 1					
Masonry					

		Unit	Quantity	Rate	Amount
	<u>Galvanised hoop iron cramps, ties, etc</u>				
8	2 mm Hoop iron cramp 40 mm wide and 900 mm girth, one end turned up, twice holed and screwed to wood frame and other end built into brickwork	No.	8	25.00	200 00
9	32 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No.	10	20.00	200 00
	<u>FIBRE-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
10	65 x 290mm Wide type 'H' sill set sloping and slightly projecting	m	5	75.00	375 00
Carried to Collection				R	775 00
Section No. 10					
Bill No. 1					
Masonry					

SECTION NO.10
TOP STRUCTURE OFFICE UNIT
BILL NO. 1
MASONRY
COLLECTION

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139	15 905 00
140	775 00

Section No. 10
Bill No. 1
Masonry

Carried To Section Summary

R	16 680 00
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		Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u>					
<u>TOP STRUCTURE OFFICE UNIT</u>					
<u>BILL NO. 2</u>					
<u>WATERPROOFING</u>					
<u>(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>DAMPPROOFING OF WALLS AND FLOORS</u>					
<u>One layer of 375 micron embossed damp proof course</u>					
1	In walls	m ²	7	17.00	119 00
<u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u>					
2	Under surface beds	m ²	19	20.00	380 00
<u>JOINT SEALANTS, ETC</u>					
<u>Clear silicone sealant</u>					
3	In waterproofing joints between brickwork or fittings	m	4	20.00	80 00
4	In joint sealing and pointing between external window frames and brick surround	m	20	20.00	400 00
Carried To Section Summary				R	979 00
Section No. 10					
Bill No. 2					
Waterproofing					

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		Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u> <u>TOP STRUCTURE OFFICE UNIT</u> <u>BILL NO. 3</u> <u>ROOF COVERINGS</u> <u>(CPAP WORK GROUP NO. 124 UNLESS OTHERWISE STATED)</u> <u>0,53mm Zincalume roof sheeting steel resin coated, AZ150 minimum (150g/m2) coating mass, grade 550 (minimum yield strength of 550 Mpa) and accessories fixed to timber purlins :</u>					
1	Roof covering with pitch not exceeding 25°	m²	36	180.00	6 480 00
<u>Zincalume Ridge capping:</u>					
2	Ridge capping 460mm girth	m	6	110.00	660 00
<u>ROOF INSULATION</u> <u>'SISALATION FR 405' underlay over trusses and under purlins on training tape - to be Class B/B1/2/H&V. in accordance with SANS 10400 Part T</u>					
3	50mm approved High Density Polystyrene Insulation beveled insulation boards laid horizontally over on engineered trusses and secured with screws through purlins.	m²	36	35.00	1 260 00
Carried To Section Summary				R	8 400 00
Section No. 10 Bill No. 3 Roof Coverings					

	Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u> <u>TOP STRUCTURE OFFICE UNIT</u> <u>BILL NO. 4</u> <u>CARPENTRY AND JOINERY</u> <u>(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Roof trusses</u> <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> <u>Joinery</u> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <u>Fixing</u> <p>All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used</p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Where items are described as 'bolted' the bolts have been measured elsewhere</p> <p>Unless otherwise stated all items in this bill will be Work Group 126</p>				
Carried to Collection			R	0 00
Section No. 10 Bill No. 4 Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
<u>ROOFS, ETC</u>					
<u>Sawn softwood</u>					
1	38 x 114mm Wall plates	m	9	90.00	810 00
<u>Sawn softwood grade 4</u>					
2	50 x 75mm Purlins	m	8	45.00	360 00
<u>Wrought softwood grade 4</u>					
3	76 x 76mm Splayed Purlins	m	2	45.00	90 00
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>					
<u>The following trusses shall be 'Gangnail' or similar approved engineering designed roof trusses manufactured from sawn softwood and suitable for corrugated iron covering and gypsum plasterboard ceilings on 38 x 50mm softwood branderling</u>					
<u>(NOTE :The contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications)</u>					
4	Dooble pitched roof trusses approximately 4800mm span between wall plates to 19 degree pitch with 450 mm eaves overhang both ends.	No.	5	700.00	3 500 00
5	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's	Item			350 00
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement fascias and barge boards</u>					
6	12 X 225 mm Fascias boards	m	12	35.00	420 00
7	200 X 80 mm barge boards	m	12	35.00	420 00
<u>DOORS, ETC</u>					
<u>FRAMED FRAMES ETC</u>					
<u>Wrought meranti doors hung to steel frames</u>					
8	40mm Framed door 813 x 2032mm high of 115mm top rail and stiles, 115mm middle rail and 212 mm bottom rail, with 23 x 552mm high solid fielded bottom panel and open top panel 1069mm high rebated all round including 12 x 12mm glazing beads on one side	No.	1	700.00	700 00
				R	6 650 00
Carried to Collection					
Section No. 10					
Bill No. 4					
Carpentry And Joinery					

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	Unit	Quantity	Rate	Amount
<u>Semi solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u> 9 40mm Door 813 x 2032mm high	No.	1	450.00	450 00
Carried to Collection			R	450 00

Section No. 10
 Bill No. 4
 Carpentry And Joinery

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SECTION NO.10

TOP STRUCTURE OFFICE UNIT

BILL NO. 4

CARPENTRY AND JOINERY

COLLECTION

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145	6 650 00
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Section No. 10

Bill No. 4

Carpentry And Joinery

Carried To Section Summary

R7 100 00

	Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u> <u>TOP STRUCTURE OFFICE UNIT</u> <u>BILL NO. 6</u> <u>IRONMONGERY</u> <u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <u>Finishes to ironmongery</u> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <u>Fixing</u> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer</p> <u>HINGES, BOLTS, ETC</u>				
1	No.	4	45.00	180 00
<u>LOCKS</u>				
2	No.	1	90.00	90 00
3	No.	1	110.00	110 00
<u>SUNDRIES</u>				
4	No.	2	15.00	30 00
Carried to Collection			R	410 00
Section No. 10 Bill No. 6 Ironmongery				

		Unit	Quantity	Rate	Amount
<u>BATHROOM FITTINGS</u>					
5	Single Toilet Roll Holder - Vitreous china - 204x160x90mm with plastic Spindle	No.	1	95.00	95 00
Carried to Collection				R	95 00
Section No. 10 Bill No. 6 Ironmongery					
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SECTION NO.10
TOP STRUCTURE OFFICE UNIT
BILL NO. 6
IRONMONGERY
COLLECTION

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150	95 00

Carried To Section Summary

R	505 00
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Section No. 10
Bill No. 6
Ironmongery

	Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u>				
<u>TOP STRUCTURE OFFICE UNIT</u>				
<u>BILL NO. 7</u>				
<u>METALWORK</u>				
<u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .				
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Double rebated frames suitable for half brick walls</u>				
1	No.	1	590.00	590 00
<u>1,6mm Double rebated frames suitable for one brick walls</u>				
2	No.	1	690.00	690 00
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
<u>Note</u>				
<u>Refer to attached window schedules for details of windows</u>				
3	No.	1	720.00	720 00
4	No.	1	2 160.00	2 160 00
5	No.	3	2 880.00	8 640 00
Carried To Section Summary			R	12 800 00
Section No. 10				
Bill No. 7				
Metalwork				

		Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u>					
<u>TOP STRUCTURE OFFICE UNIT</u>					
<u>BILL NO. 8</u>					
<u>PLASTERING</u>					
<u>(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>SCREEDS</u>					
<u>Screeds on concrete</u>					
1	40mm Thick on floors	m ²	20	45.00	900 00
<u>GRANOLITHIC</u>					
<u>Untinted granolithic, on concrete</u>					
2	40mm Thick on floors and landings	m ²	20	55.00	1 100 00
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
3	On walls	m ²	52	45.00	2 340 00
<u>EXTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
4	On walls	m ²	49	45.00	2 205 00
Carried To Section Summary				R	6 545 00
Section No. 10					
Bill No. 8					
Plastering					

	Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u> <u>TOP STRUCTURE OFFICE UNIT</u> <u>BILL NO. 9</u> <u>TILING</u> <u>(CPAP WORK GROUP NO. 144 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <u>Fixing</u> Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere <u>WALL TILING</u> <u>152 x 152 x 5mm White glazed ceramic tiles</u>				
1 On walls	m ²	2	55.00	110 00
Carried To Section Summary			R	110 00
Section No. 10 Bill No. 9 Tiling				

	Unit	Quantity	Rate	Amount	
<u>SECTION NO.10</u>					
<u>TOP STRUCTURE OFFICE UNIT</u>					
<u>BILL NO. 10</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>					
<u>PREAMBLES</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) .					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent					
<u>Fixing</u>					
Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer					
<u>Chasing</u>					
Chasing pipes into new walls shall be regarded as 'building in' and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes					
<u>Stainless steel sanitary fittings</u>					
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable					
<u>Waste unions</u>					
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings					
<u>RAINWATER DISPOSAL</u>					
<u>uPVC gutters and rainwater pipes</u>					
1	100mm Half-round roof gutters	m	6	150.00	900 00
2	100mm Half-round roof gutters	m	6	150.00	900 00
3	Extra over eaves gutter for stopped end	No.	4	85.00	340 00
4	Extra over eaves gutter for outlet for 75mm diameter pipe	No.	4	85.00	340 00
Carried to Collection				R	2 480 00
Section No. 10					
Bill No. 10					
Plumbing And Drainage					

		Unit	Quantity	Rate	Amount	
5	75mm Diameter rainwater pipes in continuous lengths	m	4	110.00	440	00
6	Extra over rainwater pipe for eaves offset 750mm projection	No.	4	85.00	340	00
7	Extra over rainwater pipe for shoe	No.	4	85.00	340	00
<u>SANITARY FITTINGS</u>						
8	Stainless steel single centre bowl drop-in sink size 600mm x 1200mm. Bowl size 610 x 460 x 230mm deep with overflow, manufactured in grade 304 (18/10) stainless steel. Tap to be 15mm 102CP demand bib tap. All in accordance to relative SANS	No.	1	350.00	350	00
9	WHB, size 450 x 405mm with overflow and two tap hole configuration fixed to wall with and including 2 x 10mm bolts. 32 x 32mm bottle trap, chrome plated with 75mm deep seal, inlet screwed female, outlet, male for 40mm PVC. Chrome plated bottle trap with 75mm deep seal for 40mm PVC waste. 15mm chrome plated basin set pillar tap; 1 off basin waste with plug, chain, stay and back nut No.301. Flow restriction washers to be fitted to taps. All in accordance to relative SANS	No.	1	350.00	350	00
10	Low level Ceramic flush toilet with close couple cistern including plumbing and drainage, installed complete	No.	1	550.00	550	00
<u>WASTE UNIONS, ETC</u>						
11	32mm 301 CP waste union	No.	2	110.00	220	00
<u>TRAPS, ETC</u>						
12	40mm Anti-vac trap	No.	3	85.00	255	00
<u>TAPS, VALVES, ETC</u>						
13	WHB Pillar tap X2 with hot and cold indices. ¾" BSP male inlet. SANS 226 TYPE2.	No.	4	130.00	520	00
<u>SANITARY PLUMBING</u>						
<u>uPVC pipes</u>						
14	50mm Pipes	m	6	45.00	270	00
15	110mm Pipes	m	6	55.00	330	00
16	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	0	85.00	0	00
Carried to Collection				R	3 965	00
Section No. 10 Bill No. 10 Plumbing And Drainage						

		Unit	Quantity	Rate	Amount
17	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	12	150.00	1 800 00
	<u>Extra over uPVC pipes for uPVC fittings</u>				
18	50mm Adaptor	No.	3	130.00	390 00
19	50mm Bend	No.	3	20.00	60 00
20	110mm Bend	No.	3	40.00	120 00
21	110mm Pan connector	No.	1	65.00	65 00
22	110mm Access Bend	No.	1	45.00	45 00
23	110mm 'GI two-way' vent valve	No.	1	100.00	100 00
	<u>Sundries</u>				
24	Wire balloon grating in top of pipe not exceeding 100mm	No.	1	35.00	35 00
	<u>WATER SUPPLIES</u>				
	<u>Class O copper pipes</u>				
25	15mm Pipes	m	3	30.00	90 00
26	22mm Pipes	m	2	35.00	70 00
	<u>Extra over class O copper pipes for capillary fittings</u>				
27	15mm Fittings	No.	5	25.00	125 00
28	22mm Fittings	No.	6	30.00	180 00
	<u>Extra over class O copper pipes for conex compression fittings</u>				
29	15mm Fittings	No.	3	25.00	75 00
30	22mm Fittings	No.	3	30.00	90 00
	<u>Copper overflow and service pipes</u>				
31	15mm Service pipes 350 mm girth	No.	1	35.00	35 00
32	20mm Service pipes 350 mm girth	No.	1	40.00	40 00
	<u>ELECTRIC WATER HEATERS</u>				
33	10 Litre Prisma over-basin electric water heater fixed to wall	No.	1	1 955.00	1 955 00
Carried to Collection				R	5 275 00
Section No. 10					
Bill No. 10					
Plumbing And Drainage					

SECTION NO.10
TOP STRUCTURE OFFICE UNIT
BILL NO. 10
PLUMBING AND DRAINAGE
COLLECTION

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155	2 480 00
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157	5 275 00

Section No. 10
Bill No. 10
Plumbing And Drainage

Carried To Section Summary

R	11 720 00
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		Unit	Quantity	Rate	Amount
<u>SECTION NO.10</u> <u>TOP STRUCTURE OFFICE UNIT</u> <u>BILL NO. 11</u> <u>PAINTWORK</u> <u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition) . <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions</u> Proprietary products shall be used as specified. All products are to be SABs approved. <u>PAINTWORK, ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare, stop and apply two filler coat of paint 100-M370-2800 or equal approved and finish with two coats interior emulsion paint</u>					
1	On internal walls	m ²	52	55.00	2 860 00
2	On external walls	m ²	49	55.00	2 695 00
<u>ON PLASTER BOARD</u> <u>One coat Fillercoat' thinned 15% with 'An Overcoating time of 4 hours' and Finish with two coats Pearl glo Water Clean-up (D190-LINE)' paint or equally approved</u>					
3	On ceilings	m ²	20	55.00	1 100 00
<u>ON CONCRETE FLOORS</u> <u>Internal - A coloured, cement-based, self-levelling floor covering for application onto wood floated screeds. To produce a 2mm smooth, decorative layer that is unaffected by rising damp. For interior use only. All to manufacturers specification. In accordance with SANS 10109, SANS 50197, SANS 1083, SANS 50197</u>					
4	On floors	m ²	20	55.00	1 100 00
Carried to Collection				R	7 755 00
Section No. 10 Bill No. 11 Paintwork					

		Unit	Quantity	Rate	Amount
<u>ON METAL SURFACES</u>					
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>					
5	Door frames	m ²	5	55.00	275 00
<u>ON WOOD SURFACES</u>					
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on doors</u>					
6	Doors	m ²	9	55.00	495 00
				R	770 00
Section No. 10 Bill No. 11 Paintwork					

Carried to Collection

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SECTION NO.10
TOP STRUCTURE OFFICE UNIT
BILL NO. 11
PAINTWORK
COLLECTION

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160	770 00

Section No. 10
Bill No. 11
Paintwork

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SECTION NO.10

TOP STRUCTURE OFFICE UNIT

SECTION SUMMARY

Bill
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1	MASONRY	141	16 680	00
2	WATERPROOFING	142	979	00
3	ROOF COVERINGS	143	8 400	00
4	CARPENTRY AND JOINERY	147	7 100	00
5	CEILINGS PARTITIONS AND ACCESS FLOORING	148	3 710	00
6	IRONMONGERY	151	505	00
7	METALWORK	152	12 800	00
8	PLASTERING	153	6 545	00
9	TILING	154	110	00
10	PLUMBING AND DRAINAGE	158	11 720	00
11	PAINTWORK	161	8 525	00

Carried to Final Summary

R

77 074 00

Section No. 10

SECTION SUMMARY

		Unit	Quantity	Rate	Amount
<u>SECTION NO.11</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 1</u>					
<u>FENCING (PROVISIONAL)</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>Site clearance</u>					
1	Allow for clearing site for the width of 1 000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m	1	10.00	10 00
2	Excavate in earth and fill adjacent portion to make up levels under fence line	m³	1	55.00	55 00
<u>Palisade fencing</u>					
3	Security palisade fencing 2,40m high consisting of vertical 75 x 75 x 3mm square tubing at approximately 3.0m intervals with vertical 25 x 25 x 3mm angle irons to form devils fork in between at 125mm centres, welded to horizontal 40 x 40 x 3 x 3000mm angle irons one at the top and two at the bottom including vertical 25 x 25 x 600mm high angle iron at bottom to form doggy bars	m	1	480.00	480 00
<u>Gates</u>					
4	Palisade gate 1.0m x 2.40m high consisting of 100 x 50mm tubing frame with vertical 25 x 25 x 3mm angle irons to form devils fork in between at 125mm centres, welded to horizontal 40 x 40 x 3 x 1000mm angle irons one at the top and one at the bottom, 40 x 5 x 1.0m long flat bar rollers welded on top fork including vertical 25 x 25 x 600mm high angle iron at bottom to form doggy bars	No.	1	3 000.00	3 000 00
5	Sliding palisade gate 6.0m x 2.40m high consisting of 100 x 50mm tubing frame with vertical 25 x 25 x 3mm angle irons to form devils fork in between at 125mm centres, welded to horizontal 40 x 40 x 3 x 3000mm angle irons one at the top and one at the bottom, 40 x 5 x 6.0m long flat bar rollers welded on top fork including vertical 25 x 25 x 600mm high angle iron at bottom to form doggy bars	No.	1	8 500.00	8 500 00
6	50mm Galvanised steel locking chain 500mm long welded to gate frame	No.	1	300.00	300 00
7	'Union 3122' heavy duty padlock	No.	1	150.00	150 00
Carried to Collection				R	12 495 00
Section No. 11					
Bill No. 1					
Fencing (provisional)					

		Unit	Quantity	Rate	Amount	
8	500 x 500 x 700mm Deep 20MPa mass concrete keep block with 19mm diameter x 100mm long galvanised pipe cast into top, including all necessary excavation, formwork, etc	No.	1	850.00	850	00
9	20MPa/19mm Stone concrete under gates, 1 m wide x average 200 mm thick overall, humped and shaped to falls, including excavations, formwork, backfilling, etc	m³	1	850.00	850	00
<u>SECURITY FENCING</u>						
<u>Supplementary Preambles</u>						
1. All fencing components are to be hot-dip galvanised after manufacture 2. Flatwrap wire to comply with CKS 592 3. Flatwrap wire and clips to be 'Aluzink' coated						
<u>Site clearance</u>						
10	Allow for clearing site for the width of 1 000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m	1	10.00	10	00
11	Excavate in earth and fill adjacent portion to make up levels under fence line	m³	1	55.00	55	00
<u>Galvanised mild steel security fencing</u>						
12	Security fencing 2400m high formed of 76mm diameter x 3mm wall thickness galvanised intermediate posts 2880mm long (measured elsewhere); the vertical height covered with 76 x 50 x 3,15mm galvanised Class A Weldmesh fencing 2400mm high fixed to straining wires with 'Hogring' clips applied at 500mm centres and the top covered with a rows row of 600mm flatwrap razor wire attached to and including two strands of barbed wire and weldmesh with 'Hogring' clips at 400mm centres, and at each overlap of the flatwrap with the adjacent flatwrap	m	1	130.00	130	00
13	76mm diameter x 3mm wall thickness galvanised intermediate posts 2880mm long , holed six times, fitted on top with pressed steel caps, 150 x 150 x 5mm thick mild steel baseplates welded on at bottom and embedded in and including 300 x 300 x 700mm deep 15MPa mass concrete base at maximum 3m centres, including four 4mm galvanised straining wires secured to posts; the vertical height covered with 76 x 50 x 3.15mm galvanised Class A Weldmesh fencing 2400mm high fixed to straining wires with 'Hogring' clips applied at 500mm centres	No.	1	160.00	160	00
Carried to Collection				R	2 055	00
Section No. 11						
Bill No. 1						
Fencing (provisional)						

		Unit	Quantity	Rate	Amount	
14	Extra over fencing for 76mm Diameter x 3mm wall thickness straining or corner post 2400mm long holed six times and fitted on top with a pressed steel cap and other end fitted with 200 x 200 x 5mm thick galvanised mild steel base plate welded on and embedded in and including 500 x 500 x 700mm deep 15MPa mass concrete base	No.	1	260.00	260	00
15	Extra over fencing for 76mm Diameter x 3mm wall thickness gate post 2400mm long holed six times and fitted on top with a pressed steel cap and other end fitted with 200 x 200 x 5mm thick galvanised mild steel base plate welded on and embedded in and including 500 x 500 x 700mm deep 15MPa mass concrete base	No.	1	260.00	260	00
Gates						
16	Single pedestrian gate size 1000 x 2400mm high formed of 50mm diameter x 3mm wall thickness tubular section framing with stiles 2400mm high and one horizontal brace and two diagonal braces scribed and welded at all intersections and covered with 76 x 50 x 3,15mm galvanised Class A Weldmesh 2400mm high fixed with 'Hogring' clips to four 2.4mm galvanised straining wires and the top covered with a single row of 500mm flatwrap razor wire attached to and including two strands of barbed wire and weldmesh with 'Hogring' clips; the gate fitted with three eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt, and drilling gate post for keep hole, etc	No.	1	1 500.00	1 500	00
17	Vehicle gate size 2000 x 2400mm high formed of 50mm diameter x 3mm wall thickness tubular section framing with stiles 2400mm high and one horizontal brace and two diagonal braces scribed and welded at all intersections and covered with 76 x 50 x 3,15mm galvanised Class A Weldmesh 2400mm high fixed with 'Hogring' clips to four 2.4mm galvanised straining wires and the top covered with a single row of 500mm flatwrap razor wire attached to and including two strands of barbed wire and weldmesh with 'Hogring' clips; the gate fitted with three eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt, and drilling gate post for keep hole, etc	No.	1	3 500.00	3 500	00
18	50mm Galvanised steel locking chain 500mm long welded to gate frame	No.	1	280.00	280	00
19	'Union 3122' heavy duty padlock	No.	1	280.00	280	00
Carried to Collection				R	6 080	00
Section No. 11						
Bill No. 1						
Fencing (provisional)						

		Unit	Quantity	Rate	Amount	
20	500 x 500 x 700mm Deep 20MPa mass concrete keep block with 19mm diameter x 100mm long galvanised pipe cast into top, including all necessary excavation, formwork, etc	No.	1	830.00	830	00
Carried to Collection				R	830	00
Section No. 11						
Bill No. 1						
Fencing (provisional)						
166						

SECTION NO.11
EXTERNAL WORKS
BILL NO. 1
FENCING (PROVISIONAL)
COLLECTION

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163	12 495 00
164	2 055 00
165	6 080 00
166	830 00

Carried To Section Summary

R	21 460 00
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Section No. 11
Bill No. 1
Fencing (provisional)

		Unit	Quantity	Rate	Amount	
<u>SECTION NO.11</u>						
<u>EXTERNAL WORKS</u>						
<u>BILL NO. 2</u>						
<u>WATER SUPPLIES (EXTERNAL) (PROVISIONAL)</u>						
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).						
<u>WATER SUPPLY</u>						
<u>Connection</u>						
1	Allow the provisional sum of R20 000.00 (Twenty thousand Rand) (net) for water connection to local authorities' water main to be executed by the local authority	Item			20 000	00
2	Allow for profit on last if required	Item			1 000	00
3	Allow for attendance to local authority executing water main connection and paying all fees	Item			1 000	00
<u>Class 9 UPVC pressure pipes with Lyng joints including excavation in pickable material, filling in, ramming and disposal of surplus material</u>						
4	75mm Pipes laid in and including trenches 700mm deep	m	1	180.00	180	00
<u>Extra over UPVC pipes for fiittings</u>						
5	75mm Bend	No.	30	75.00	2 250	00
6	75mm Tee	No.	6	90.00	540	00
7	75mm Reducing Tee	No.	1	120.00	120	00
<u>High density polyethylene (HDPE) Class 16 pressure piping, including straight couplings in the running length, surrounding pipe with 100mm river sand bed and 300mm cover for width of trench and backfilling remainder with filling obtained from the excavations</u>						
8	32mm Diameter pipes laid in earth or earth filling under surface beds, including excavations exceeding 1m and not exceeding	m	1	45.00	45	00
<u>Extra over HDPE pipes for fiittings</u>						
9	32mm Bend	No.	1	75.00	75	00
10	32mm Tee	No.	1	75.00	75	00
11	32mm Reducing Tee	No.	1	75.00	75	00
Carried to Collection				R	25 360	00
Section No. 11						
Bill No. 2						
Water Supplies (external) (provisional)						

		Unit	Quantity	Rate	Amount
	<u>Excavate for and build meter and valve chamber with precast concrete top section with 445mm diameter concrete lid and one-brick sides in extra hard burnt stock bricks in 1:3 cement mortar finished fair face internally on 150mm concrete 20 MPa (20mm stone) bottom, all as per the Engineers detail</u>				
12	Meter and valve chamber size internally 510 x 440 x 900mm deep	No.	1	1 500.00	1 500 00
13	600 x 600 x 600mm deep Valve chamber	No.	1	1 800.00	1 800 00
	<u>Valve chamber covers and frames, etc.</u>				
14	600 x 600mm Cast iron single seal manhole cover and frame	No.	1	75.00	75 00
	<u>Taps, valves, etc., including coupling to pipes and/or fittings</u>				
15	110mm Diameter Cast iron flanged gate valve with non rising spindle	No.	1	110.00	110 00
16	20mm Brass garden hose bibtap	No.	1	250.00	250 00
	<u>Water meters, etc.</u>				
17	100mm Water meter (table D flange) including bolts and gasket	No.	1	2 000.00	2 000 00
18	Search for, excavate and cut into existing 75mm PVC water main and insert new tee (fittings elsewhere)	No.	1	1 000.00	1 000 00
	<u>PROTECTION TO PIPES IN GROUND</u>				
	<u>Denso' pipe wrapping consisting of 'Denso-primer' base coat, wrapped one layer 'Denso-wrap' with 55% overlap and covered with 'Denso' PVC outerwrap with 55% overlap, including tests, to</u>				
19	75mm Diameter pipes in earth or earth filling (fittings measured elsewhere)	m	1	50.00	50 00
20	75mm Elbow	No.	1	10.00	10 00
	<u>Testing</u>				
21	Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's	Item			1 000 00
	Carried to Collection			R	7 795 00
	Section No. 11				
	Bill No. 2				
	Water Supplies (external) (provisional)				

SECTION NO.11
EXTERNAL WORKS
BILL NO. 2
WATER SUPPLIES (EXTERNAL) (PROVISIONAL)
COLLECTION

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169	7 795 00

Section No. 11
Bill No. 2
Water Supplies (external) (provisional)

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R	33 155 00
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		Unit	Quantity	Rate	Amount
<u>SECTION NO.11</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 3</u>					
<u>ROADS, WALKWAYS AND STEPS (PROVISIONAL)</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>ROADWORK, PARKING AREAS AND WALKWAYS</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	1	20.00	20 00
<u>Excavation in earth not exceeding 2m deep</u>					
2	150mm Deep over site between buildings, retaining walls, etc to remove top soil and dispose in prescribed stock piles on site	m ²	1	55.00	55 00
<u>Extra over bulk excavation in earth for excavation in</u>					
3	Soft rock	m ³	1	150.00	150 00
4	Hard rock	m ³	1	300.00	300 00
<u>Extra over all excavations for carting away</u>					
5	Cartaway surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1	70.00	70 00
<u>Keeping excavations free of water</u>					
6	Keeping excavations free of water other than subterranean water	Item			500 00
<u>EARTHWORKS</u>					
<u>Road bed preparation</u>					
7	Scarify in-situ road bed surface to a depth of 100 mm and compact to 93% Modified AASTO density at optimum moisture content	m ²	1	20.00	20 00
<u>Base Course</u>					
8	Base course of G4 material in accordance with SABS 1200ME, stabilised with OPC to C4 quality and compacted to 97% Mod AASHTO density	m ³	1	180.00	180 00
Carried to Collection				R	1 295 00
Section No. 11					
Bill No. 3					
Roads, Walkways And Steps (provisional)					

		Unit	Quantity	Rate	Amount
<u>Sub-base Course</u>					
9	Sub-base course of G5 material in accordance with SABS1200 DM, compacted to 95% Mod AASHTO density	m ³	1	180.00	180 00
<u>Subgrade</u>					
10	Filling of G7 material in accordance with SABS 1200 DM , in layers not exceeding 150mm thick, compacted to 95% Mod AASHTO density	m ³	1	180.00	180 00
11	Spray sub-base with an approved brand of weed killer in accordance the manufacturer's instructions	m ²	1	10.00	10 00
<u>ASPHALT</u>					
12	Prepare, prime surface of base course with MC-30 cut-back primer and apply 30mm thick TPA medium asphalt wearing course compacted to 97% marshal density to roadways, parking areas	m ²	1	150.00	150 00
<u>KERBING AND ROAD SIGNS</u>					
13	Filling from the excavations behind kerbing to correct lines, slopes, etc	m ³	1	100.00	100 00
<u>Precast concrete kerbing set in ground including jointing in 1:2 cement mortar</u>					
14	Figure 3 type kerbing	m	1	120.00	120 00
15	Figure 3 type kerbing circular on plan exceeding 4m radius	m	1	125.00	125 00
16	Figure 12 type kerbing	m	1	135.00	135 00
17	Figure 12 type kerbing circular on plan exceeding 4m radius	m	1	140.00	140 00
<u>Concrete</u>					
18	Concrete 15MPa in benching behind kerbing including formwork	m ³	1	1 300.00	1 300 00
<u>ROAD SIGNS AND MARKING</u>					
<u>Road marking retro reflective paint on tarmac</u>					
19	Broken or unbroken line 100mm wide	m	1	15.00	15 00
Carried to Collection				R	2 455 00
Section No. 11					
Bill No. 3					
Roads, Walkways And Steps (provisional)					

SECTION NO.11

EXTERNAL WORKS

BILL NO. 3

ROADS, WALKWAYS AND STEPS (PROVISIONAL)

COLLECTION

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1 295 00

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2 455 00

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3 750 00

Section No. 11

Bill No. 3

Roads, Walkways And Steps (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO.11</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 4</u>					
<u>STORMWATER DRAINAGE (EXTERNAL)</u>					
<u>(PROVISIONAL)</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>Work in connection with existing</u>					
1	Search, locate, excavate and cut into existing stormwater manhole for and connect new 300mm diameter pipe, including making good to manhole	No.	1	1 500.00	1 500 00
<u>Stormwater channels</u>					
2	Excavation in earth not exceeding 2m deep for 300mm Diameter pipes laid to falls in earth or earth filling	m	1	55.00	55 00
3	Extra over excavations for excavations in soft rock	m³	1	150.00	150 00
4	Extra over excavations for excavations in hard rock	m³	1	300.00	300 00
<u>Precast or in-situ concrete (Class 20) open stormwater channels with v-shaped waterway formed in top, finished smooth on all exposed surfaces and with angels rounded, cast in suitable lengths (not exceeding 2500mm), and reinforced as necessary for handling if precast, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u>					
5	Channel size 600 x 75 mm thick overall with v-shaped waterway.	m	1	300.00	300 00
6	Extra over for angle.	No.	1	150.00	150 00
7	Extra over for spreader.	No.	1	100.00	100 00
Carried to Collection				R	2 555 00
Section No. 11					
Bill No. 4					
Stormwater Drainage (external) (provisional)					

		Unit	Quantity	Rate	Amount
<u>Manholes</u>					
<u>Excavate for and build stormwater manhole with one brick sides in extra hard burnt stock bricks, finished fair face internally and reinforced with two layers Brickforce at top, on and including 175mm thick reinforced concrete 25 MPa top, 175mm thick reinforced concrete 25 MPa (20mm stone) bottom with Y12's @125 centres both ways and fitted with cover and frame (elsewhere) cast into and including 100mm reinforced concrete 40 MPa (20mm stone) cover slab, steel trowelled smooth on all exposed surfaces with clean sharp arrises and angles, the bottom benched up in fine concrete 15 MPa (8mm stone) finished smooth in 1:1 cement plaster around and including forming channels</u>					
8	Stormwater manhole size internally 1220 x 1220mm exceeding 1m and not exceeding 2m deep to invert	No.	1	5 600.00	5 600 00
<u>Covers and frames</u>					
9	620mm Diameter 'ST GOBAIN' Type 2A manhole cover and frame	No.	1	1 500.00	1 500 00
Carried to Collection				R	7 100 00
Section No. 11					
Bill No. 4					
Stormwater Drainage (external) (provisional)					
175					

SECTION NO.11
EXTERNAL WORKS
BILL NO. 4
STORMWATER DRAINAGE (EXTERNAL) (PROVISIONAL)
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174	2 555	00
175	7 100	00

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9 655	00
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Section No. 11
Bill No. 4
Stormwater Drainage (external) (provisional)

	Unit	Quantity	Rate	Amount	
<u>SECTION NO.11</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 5</u>					
<u>SOIL DRAINAGE (PROVISIONAL)</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>Work in connection with existing</u>					
1	Search, locate and break into existing precast concrete manhole exceeding 1m and not exceeding 2m deep for and connect new 110mm diameter uPVC drain pipe, including hacking up existing concrete benching as necessary, forming new benching, new half round channel and making good to manhole	No.	1	2 500.00	2 500 00
<u>uPVC Class 34 soil, waste and vent pipes, including couplings in the running lengths</u>					
2	Excavation in earth not exceeding 2m deep for 110mm Diameter pipes laid in earth	m	1	55.00	55 00
3	Extra over excavations for excavations in soft rock	m³	1	150.00	150 00
4	Extra over excavations for excavations in hard rock	m³	1	300.00	300 00
<u>Extra over PVC pipes for fittings</u>					
5	100mm Bend	No.	0	75.00	0 00
6	100mm cleaning eye pipe	No.	0	110.00	0 00
7	100mm Junction	No.	0	100.00	0 00
<u>Manholes</u>					
<u>Excavate for and build circular manhole with 1m diameter precast concrete splay rebated rings not less than 63mm thick in suitable widths to suit invert bedded and jointed with suitable watertight joints, on and including 150mm thick reinforced concrete 20 MPa (20mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with cover and frame (elsewhere) cast into and including 125mm reinforced concrete 20 MPa (20mm stone) cover slab, steel trowelled smooth on all exposed surfaces, the bottom benched up in fine concrete 15 MPa (8mm stone) and finished smooth in 1:1 cement plaster around channels (elsewhere measured)</u>					
8	Manhole exceeding 1 and not exceeding 2m deep to invert	No.	1	5 600.00	5 600 00
Carried to Collection				R	8 605 00
Section No. 11					
Bill No. 5					
Soil Drainage (provisional)					

		Unit	Quantity	Rate	Amount
<u>Covers and frames</u>					
9	550mm Diameter 'ST GOBAIN' Type 2A manhole cover and frame	No.	1	1 400.00	1 400 00
<u>Testing</u>					
10	Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's	Item			2 500 00
Carried to Collection				R	3 900 00
Section No. 11					
Bill No. 5					
Soil Drainage (provisional)					
178					

SECTION NO.11
EXTERNAL WORKS
BILL NO. 5
SOIL DRAINAGE (PROVISIONAL)
COLLECTION

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177	8 605 00
178	3 900 00

Section No. 11
Bill No. 5
Soil Drainage (provisional)

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R	12 505 00
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		Unit	Quantity	Rate	Amount
<u>SECTION NO.11</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 6</u>					
<u>SITE CLEARANCE, BULK EARTHWORKS, ETC</u>					
<u>(PROVISIONAL)</u>					
The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (1999 Edition).					
<u>CLEARING OF SITE</u>					
1	Allow for clearing of site of all vegetable matter, rubbish, etc.including small trees having a circumference of less than 200mm measured at a height of 1 000mm above ground level, that may be encountered and roughly level site to be built upon and carting away any debris to a site to be found by the contractor.	m ²	1	10.00	10 00
<u>EARTHWORKS</u>					
<u>Open face excavations in earth over sloping site:</u>					
2	Excavate in soft material in open face not exceeding 2 m deep extreme to reduce levels and deposit on site as filling (cut and fill) spread, levelled, consolidated in layers not exceeding 300 mm thick and compacted to 98% modified AASHTO density including forming terraces, slopes, banks, combers etc	m ³	1	55.00	55 00
3	Extra over exvavations for excavations in soft rock	m ³	1	150.00	150 00
4	Extra over exvavations for excavations in hard rock	m ³	1	300.00	300 00
5	Scarify in-situ surface of the bulk excavated bottoms to a depth of 150 mm, and compact to 93% Modified AASHTO density at optimum moisture content	m ²	1	20.00	20 00
6	Imported filling supplied by the contractor, compacted to form platforms in layers not exceeding 150 mm thick to 98% Modified AASHTO density at optimum moisture content	m ³	1	180.00	180 00
7	Cart away surplus excavated material	m ³	1	70.00	70 00
<u>LANDSCAPING</u>					
<u>Topsoil</u>					
8	Imported topsoil supplied by the contractor spread and levelled over the site to form 100mm thick layer	m ³	1	180.00	180 00
Carried to Collection				R	965 00
Section No. 11					
Bill No. 6					
Site Clearance, Bulk Earthworks, Etc (provisional)					
180					

		Unit	Quantity	Rate	Amount
	<u>Grass plantation</u>				
9	Cynodon dactylone (Couch grass) roots in rows at 150mm centres and 50mm deep with roots lay in continuous rows	m ²	1	20.00	20 00
	<u>PLAY EQUIPMENT</u>				
10	Timber Jungle Gym (tanalith treated) with raised platform, size 1,800 x 1,800mm, with 95% UV protected shade cloth roof, with wooden hand railings on three sides, with nylon cargo net, with 3,000mm glass fibre slide fixed to platform, with two tyre swings secured with suitable thickness galvanised chain and eyebolt system, With 3600mm long suspension bridge, installed complete by an approved manufacture	No.	1	6 872.00	6 872 00
Carried to Collection				R	6 892 00
Section No. 11 Bill No. 6 Site Clearance, Bulk Earthworks, Etc (provisional)					

SECTION NO.11

EXTERNAL WORKS

BILL NO. 6

SITE CLEARANCE, BULK EARTHWORKS, ETC (PROVISIONAL)

COLLECTION

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965 00

181

6 892 00

Carried To Section Summary

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7 857 00

Section No. 11

Bill No. 6

Site Clearance, Bulk Earthworks, Etc (provisional)

SECTION NO.11
EXTERNAL WORKS
SECTION SUMMARY

Bill
No.

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1	FENCING (PROVISIONAL)	167	21 460	00
2	WATER SUPPLIES (EXTERNAL) (PROVISIONAL)	170	33 155	00
3	ROADS, WALKWAYS AND STEPS (PROVISIONAL)	173	3 750	00
4	STORMWATER DRAINAGE (EXTERNAL) (PROVISIONAL)	176	9 655	00
5	SOIL DRAINAGE (PROVISIONAL)	179	12 505	00
6	SITE CLEARANCE, BULK EARTHWORKS, ETC (PROVISIONAL)	182	7 857	00

Section No. 11
SECTION SUMMARY

Carried to Final Summary

R 88 382 00

Section No.		Page	Amount	
	<u>FINAL SUMMARY</u>			
1	PRELIMINARIES	17	450 000	00
2	STRIP FOOTING FOUNDATIONS 45M2	26	109 352	00
3	PILED FOUNDATIONS 45M2	39	218 527	00
4	45M2 UNITS	70	966 469	00
5	STRIP FOOTING FOUNDATIONS GUARD HOUSE	79	14 142	00
6	PILED FOUNDATIONS GUARD HOUSE	92	43 592	00
7	TOP STRUCTURE GUARD HOUSE	116	33 192	00
8	STRIP FOOTING OFFICE UNIT	125	39 053	00
9	PILED FOUNDATIONS OFFICE UNIT	138	82 753	00
10	TOP STRUCTURE OFFICE UNIT	162	77 074	00
11	EXTERNAL WORKS	183	88 382	00
	SubTotal excluding Value Added Tax		2 122 536	00
	ADD VAT @ 14%:		297 155	04
			2 419 691	04
	Carried to Tender	R	2 419 691	04
	FINAL SUMMARY			