

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 1</u>			
	<u>BILL No. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	i) The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 March 2005, and other contract documents that together form the contract between the employer and contractor			
	ii) The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein			
	iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
	iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	<u>PREAMBLES FOR TRADES</u>			
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained			
	Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles			
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The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where

"F" denotes a fixed amount (amount not to be varied),
"V" denotes an amount variable in proportion to value and
"T" denotes an amount in proportion to time

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Definitions and interpretation (clause 1)

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

Item

Objective and Preparation (A2 to A14)

- 2 Offer acceptance and performance (clause 2)

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

Item

- 3 Documents (clause 3)

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

Item

- 4 Design responsibility (clause 4)

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

Item

- 5 Employer's agents (clause 5)

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

Item

- 6 Site representative (clause 6)

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

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7	<p>Compliance with regulations (clause 7)</p> <p>Without limiting the generality of the provisions of Clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993 and Part C4.2 (Annexure C) of this tender document. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor must also comply with all Covid-19 regulations and protocols. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications.</p> <p><u>Asbestos removal.</u> The Contractor must make provision in his price for the appointment of a independent qualified certified and registered asbestos inspector to evaluate and monitor the removal of any asbestos material encountered in the course of the works.</p> <p>The Contractor shall provide a breakdown of the price against the following items:</p> <p>(a) : Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations R_____</p> <p>(b) : Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations R_____</p> <p>(c) : Provision of a part time / full time (delete as applicable) Construction Safety Officer R_____</p> <p>(d) : Asbestos inspector R _____</p> <p>F: V:..... T:.....</p>			
8	<p>Works risk (clause 8)</p> <p>F: V:..... T:.....</p>	Item		
9	<p>Indemnities (clause 9)</p> <p>F: V:..... T:.....</p>	Item		
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10	Works insurances (clause 10) F: V:..... T:.....	Item
11	Liability insurances (clause 11) F: V:..... T:.....	Item
12	Effecting insurance (clause 12) F: V:..... T:.....	Item
13	NO CLAUSE	N/A
14	Security (clause 14) F: V:..... T:.....	Item
<u>Execution (A15-A23)</u>		
15	Preparation for and execution of the works (clause 15) F: V:..... T:.....	Item
16	Access to the works (clause 16) F: V:..... T:.....	Item
17	Contract instructions (clause 17) In addition to the provisions of sub-clause 17.3 contract instructions are to be recorded in triplicate in a contract instruction book, which is to be supplied and maintained on site by the Contractor. F: V:..... T:.....	Item
18	Setting out of the works (clause 18) F: V:..... T:.....	Item
19	Assignment (clause 19) F: V:..... T:.....	Item
20	Nominated subcontractors (clause 20) F: V:..... T:.....	Item

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21	Selected subcontractors (clause 21) F: V:..... T:.....	Item
22	Employer's Direct Contractors (clause 22) F: V:..... T:.....	Item
23	Contractor's Domestic Sub-Contractors (Clause 23) F: V:..... T:.....	Item
<u>Completion (A24-A30)</u>		
24	Practical completion (clause 24) F: V:..... T:.....	Item
25	Works completion (clause 25) F: V:..... T:.....	Item
26	Final completion (clause 26) F: V:..... T:.....	Item
27	Latent defects liability period (clause 27) F: V:..... T:.....	Item
28	Sectional completion (clause 28) F: V:..... T:.....	Item
29	Revision of date of practical completion (clause 29) The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor the adjustment of contract value (Clause 29.2) F: V:..... T:.....	Item
30	Penalty for non-completion (clause 30) F: V:..... T:.....	Item

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Payment (A31 - A35)

31 Interim payment to the contractor (clause 31)
F: V:..... T:.....

Item

32 Adjustment to the contract value (clause 32)

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor.

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

Item

33 Recovery of expense and loss (clause 33)
F: V:..... T:.....

Item

34 Final account and final payment (clause 34)
F: V:..... T:.....

Item

35 Payment to other parties (clause 35)
F: V:..... T:.....

Item

Cancellation (A36-A39)

36 Cancellation by employer - contractor's default (clause 36)
F: V:..... T:.....

Item

37 Cancellation by employer - loss and damage (clause 37)
F: V:..... T:.....

Item

38 Cancellation by contractor - employer's default (clause 38)
F: V:..... T:.....

Item

39 Cancellation - cessation of the works (clause 39)
F: V:..... T:.....

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	<p><u>Dispute (A40)</u></p>		
40	<p>Dispute Settlement (clause 40)</p> <p>F: V:..... T:.....</p>	Item	
	<p><u>Substitute Provisions (A41)</u></p>		
41	<p>State clauses (Clause 41)</p> <p>F: V:..... T:.....</p>	Item	
	<p><u>THE SCHEDULE</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given in VOLUME 3 OF 3 that accompanies these Bills of Quantities</p> <p>Details of changes made to the provision of JBCC standard documentation is given in C1.2 CONTRACT DATA in Volume 3 of 3 that accompanies these Bills of Quantities</p>		
	<p><u>CONTRACT DATA EC</u></p>		
42	<p>The defined listed variables applicable to this agreement as contained in the employer to contractor (EC) addendum (clause 42)</p> <p>Information necessary for completion of those clauses contained in the addendum which are necessary for tender purposes is given in C1.2 Contract Data contained in Volume 3 of 3 of the documentation.</p> <p>F: V:..... T:.....</p>	Item	
	<p><u>SECTION B: PRELIMINARIES</u></p>		
	<p><u>Definitions and interpretation (B1)</u></p>		
43	<p>Definition and interpretation (B1.1 - B1.4.6)</p> <p>F: V:..... T:.....</p>	Item	
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Documents (B2)

44	Checking of documents (B2.1)	
	F: V:..... T:.....	Item
45	Provisional bills of quantities (B2.2)	
	F: V:..... T:.....	Item
46	Availability of construction documentation (B2.3)	
	F: V:..... T:.....	Item
47	Interests of agents (B2.4)	
	F: V:..... T:.....	Item
48	Priced documents (B2.5)	
	F: V:..... T:.....	Item
49	Tender submission (B2.6)	
	F: V:..... T:.....	Item

The site (B3)

50	Defined works area (B3.1)	
	F: V:..... T:.....	Item
51	Geotechnical investigation (B3.2)	
	F: V:..... T:.....	Item
52	Inspection of the site (B3.3)	
	F: V:..... T:.....	Item
53	Existing premises occupied (B3.4)	
	F: V:..... T:.....	Item
54	Previous work - dimensional accuracy (B3.5)	
	F: V:..... T:.....	Item

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55	Previous work - defects (B3.6) F: V:..... T:.....	Item
56	Services - known (B3.7) F: V:..... T:.....	Item
57	Services - unknown (B3.8) F: V:..... T:.....	Item
58	Protection of trees etc (B3.9) F: V:..... T:.....	Item
59	Articles of value (B3.10) F: V:..... T:.....	Item
60	Inspection of adjoining properties etc (B3.11) F: V:..... T:.....	Item
	<u>Management of contract (B4)</u>	
61	Management of the works (B4.1) F: V:..... T:.....	Item
62	Programme for the works (B4.2) F: V:..... T:.....	Item
63	Progress meetings (B4.3) F: V:..... T:.....	Item
64	Technical meetings (B4.4) F: V:..... T:.....	Item
65	Labour and Plant records (B4.5) F: V:..... T:.....	Item
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Samples, Shop Drawings and Manufacturer's Instructions (B5)

66	Samples of materials (B5.1)		
	F: V:..... T:.....	Item	
67	Workmanship samples (B5.2)		
	F: V:..... T:.....	Item	
68	Shop drawings (B5.3)		
	F: V:..... T:.....	Item	
69	Compliance with Manufacturer's Instructions (B5.4)		
	F: V:..... T:.....	Item	

Temporary works and plant (B6)

70	Deposits and fees (B6.1)		
	F: V:..... T:.....	Item	
71	Enclosure of the works (B6.2)		
	F: V:..... T:.....	Item	
72	Advertising (B6.3)		
	F: V:..... T:.....	Item	
73	Plant, equipment, sheds and offices (B6.4)		
	F: V:..... T:.....	Item	
74	Main notice board (B6.5)		
	F: V:..... T:.....	Item	
75	Subcontractors' notice board (B6.6)		
	F: V:..... T:.....	Item	

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<u>Temporary services (B7)</u>				
76	Location (B7.1) F: V:..... T:.....	Item		
77	Water (B7.2) Option [A] shall apply F: V:..... T:.....	Item		
78	Electricity (B7.3) Option [A] shall apply F: V:..... T:.....	Item		
79	Telecommunication equipment (B7.4) Option [A] shall apply F: V:..... T:.....	Item		
80	Ablution facilities (B7.5) Option [A] shall apply F: V:..... T:.....	Item		
<u>Prime cost amounts (B8)</u>				
81	Responsibility for prime cost amounts (B8.1) F: V:..... T:.....	Item		
<u>Attendance on N/S Subcontractors (B9)</u>				
82	General attendance (B9.1) F: V:..... T:.....	Item		
83	Special attendance (B9.2) F: V:..... T:.....	Item		
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84	Commissioning - Fuel, water and power (B9.3) F: V:..... T:..... <u>Financial aspects (B10)</u> Statutory taxes, duties and levies (B10.1) F: V:..... T:.....	Item
85	Payment of preliminaries (B10.2) Option [A] shall apply F: V:..... T:.....	Item
86	Adjustment of preliminaries (B10.3) Option [A] shall apply F: V:..... T:.....	Item
87	Payment certificate cash flow (B10.4) F: V:..... T:..... <u>General (B11)</u>	Item
88	Protection of works (B11.1) F: V:..... T:.....	Item
89	Protection/isolation of existing/sectionally occupied works (B11.2) F: V:..... T:.....	Item
90	Security of the Works (B11.3) F: V:..... T:.....	Item
91	Notice before covering work (B11.4) F: V:..... T:.....	Item
92	Disturbance (B11.5) F: V:..... T:.....	Item

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93	Environmental Disturbance (B11.6)		
	F: V:..... T:.....	Item	
94	Works cleaning and clearing (B11.7)		
	F: V:..... T:.....	Item	
95	Vermin (B11.8)		
	F: V:..... T:.....	Item	
96	Overhand work (B11.9)		
	F: V:..... T:.....	Item	
97	Instruction manuals and guarantees (B11.10)		
	F: V:..... T:.....	Item	
98	As built information (B11.11)		
	F: V:..... T:.....	Item	
99	Tenant Installations (B11.12)		
	F: V:..... T:.....	Item	
	<u>SCHEDULE OF VARIABLES (B12)</u>		
100	Pre-tender information (B12.1)		
	The Special Conditions of Contract included in Volume 3 of 3 shall amplify, modify or supersede, as the case may be, the Conditions of Contract of JBCC 2005 to the extent specified therein, and shall take precedence and shall govern in the interpretation of any ambiguity or inconsistency between it and the Conditions of Contract.		
	F: V:..... T:.....	Item	
101	12.1.1 Provisional bills of quantities (B2.2)		
	The quantities are provisional:		
	Yes		
	F: V:..... T:.....	Item	
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102	12.1.2	Availability of construction documentation (B2.3) Construction documentation is not complete Yes F: V:..... T:.....	Item
103	12.1.3	Interest of agents (B2.4) F: V:..... T:.....	Item
104	12.1.4	Defined works area (B3.1) The precise area to be occupied by the contractor will be determined at site handover. F: V:..... T:.....	Item
105	12.1.5	Geotechnical investigation (B3.2) F: V:..... T:.....	Item
106	12.1.6	Existing premises occupied (B3.4) F: V:..... T:.....	Item
107	12.1.7	Previous work - dimensional accuracy (B3.5) F: V:..... T:.....	Item
108	12.1.8	Previous work - defects (B3.6) F: V:..... T:.....	Item
109	12.1.9	Services - known (B3.7) Where relevant all known services are indicated on the drawings and will be shown out during site handover. F: V:..... T:.....	Item
110	12.1.10	Protection of trees (B3.9) F: V:..... T:.....	Item
111	12.1.11	Inspection of adjoining properties (B3.11) F: V:..... T:.....	Item

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112	12.1.12 Enclosure of the works (B6.2)			
	F: V:..... T:.....	Item		
113	12.1.13 Offices (B6.4.3)			
	F: V:..... T:.....	Item		
114	12.1.14 Main notice board (B6.5)			
	A notice board is required		Yes	
	F: V:..... T:.....	Item		
115	12.1.15 Subcontractors notice board (B6.6)			
	A notice board is required		Yes	
	F: V:..... T:.....	Item		
116	12.1.16 Water (B7.2)			
	Alternative Selected: A			
	F: V:..... T:.....	Item		
117	12.1.17 Electricity (B7.3)			
	Alternative selected: A			
	F: V:..... T:.....	Item		
118	12.1.18 Telecommunications (B7.4)			
	Alternative selected: A			
	Telephone and e-mail to be provided			
	F: V:..... T:.....	Item		
119	12.1.19 Ablution facilities (B7.5)			
	Alternative selected: A			
	F: V:..... T:.....	Item		

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120	12.1.20 Protection of existing/sectionally occupied works (B11.2) F: V:..... T:.....	Item
121	12.1.21 Special attendance (B9.2) No specific requirements F: V:..... T:.....	Item
122	12.1.22 Protection of the works (B11.1) No specific requirements F: V:..... T:.....	Item
123	12.1.23 Disturbance (B11.5) No specific requirements F: V:..... T:.....	Item
124	12.1.24 Environmental Disturbance (B11.6) F: V:..... T:.....	Item

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC. (ALL TRADES)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking up and removing mass concrete</u>			
1	Concrete surface beds not exceeding 100mm thick	m ²	97	
2	Saw cut minimum 50mm deep for demolition of surface beds	m	456	
3	Hack up and remove screed and prepare for new screed	m ²	596	
	<u>Taking up and removing roofs</u>			
	<u>Sheeting and trusses</u>			
4	Profiled roof sheeting complete with flashings and counter flashings, removal of gutters, etc.	m ²	10	
5	Ditto, Asbestos roof sheeting by registered and approved contractor in compliance with Section 20 of the Environment Conservation Act 1989 (Act 73 of 1989) and dispose as directed (Provisional)	m ²	1 622	
6	Timber roof structure including trusses, purlins, fascias, bargeboards, eaves covering, etc. (measured on flat over floor area excluding overhangs)	m ²	1 378	
7	Galvanised sheet iron gutters, downpipes, etc	m	443	
8	Fibre cement fascia/bargeboard	m	296	
9	Gypsum/Fibre cement boarded ceilings complete with branning	m ²	754	
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	Alterations			
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	<u>Breaking down and removing brickwork, blockwork, etc</u>		
10	Half brick wall in beamfilling	m ²	38
	<u>Removal of finishes to walls, etc.</u>		
11	Hack off and remove existing plaster and prepare to receive new plaster	m ²	811
12	Chip existing plastered and painted walls slush with a mixture of bonding liquid and cement and prepare to receive tiles	m ²	30
	<u>Removal of finishes to floors</u>		
13	Take up and remove existing vinyl tile flooring and prepare to receive new vinyl tile flooring	m ²	875
	<u>Taking out and removing doors, windows, etc from brickwork to remain</u>		
14	Timber door and prepare frame to receive new door	No	18
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>		
15	Take out and remove existing screed with floor finish not exceeding 50mm thick and prepare to receive new screed	m ²	292
	<u>Building in of new doors and windows into existing block work including making good to all trades</u>		
16	New pressed steel door frame for single door approximate size 900 x 2100mm high in half brick wall	No	1
	<u>Removal and replacement of door frame and windows from one-brick walls and building in of new door frame or window of the same size including making good to all trades and reveals (finishes elsewhere)</u>		
17	Window size 989 x 1187mm	No	30
18	Ditto, size 959 x 1417mm	No	35
19	Ditto, size 954 x 1190mm	No	28
20	Ditto, size 962 x 1173mm	No	2

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21	New pressed steel door frame for single door approximate size 900 x 2100mm high	No	18
22	Ditto, but double door frame 1511 x 2032mm	No	2
<u>Taking out and removing of fittings</u>			
23	Framed softboard pinning boards	m ²	113
24	76mm Timber skirting	m	521
25	Wall mounted writing board size 5400 x 900mm including plugging up and filling of holes.	No	17
26	Take out and remove existing security gate approximate size 900 x 2100mm welded to frame and prepare to receive new gate	No	17

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Section No. 2

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Alterations

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Alterations

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SECTION NO. 2			
BILL NO. 2			
FOUNDATIONS			
PREAMBLES			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>Nature of ground</u>			
All excavations are measured as being predominantly of a composition that will allow "soft excavation" as specified, but including a percentage of "intermediate excavation" and "hard rock excavation"			
<u>Filling supplied by the contractor</u>			
The Contractor must ensure that the material from the quarry that he is basing his rate on conforms to the required minimum specification. Rates for items that include clearing and filling must include for multiple handling and transport thereof on site			
<u>Excavation depths</u>			
Unless otherwise described, all excavation depths shall be taken from the average reduced, natural or filled ground level			
<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			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m ³	77
2	Holes for pit latrines (LI)	m ³	195
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	<u>Excavation in earth not exceeding 2m deep below reduced level (reduced level not exceeding 2m below ground level)</u>			
3	Trenches (LI)	m ³	6	
4	Hole for pit tanks	m ³	3	
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>			
5	Exceeding 0,5m and not exceeding 1,5m deep for brickwork to walls etc, 300mm away from excavated face (LI)	m ²	78	
6	Exceeding 1,5m and not exceeding 3m deep for brickwork to walls etc, 300mm away from excavated face (LI)	m ²	16	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
7	Soft rock (LI)	m ³	11	
8	Hard rock	m ³	6	
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>			
9	Exceeding 0,5m and not exceeding 1,5m deep for brickwork to walls etc, 300mm away from excavated face (LI)	m ²	9	
10	Exceeding 1,5m and not exceeding 3m deep for brickwork to walls etc, 300mm away from excavated face (LI)	m ²	3	
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>			
11	Exceeding 0,5m and not exceeding 1,5m deep for brickwork to walls etc, 500mm away from excavated face	m ²	3	
12	Exceeding 1,5m and not exceeding 3m deep for brickwork to walls etc, 300mm away from excavated face (LI)	m ²	2	
	<u>Extra over all excavations for carting away</u>			
13	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m ³	190	
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	<u>Risk of collapse of excavations</u>		
14	Sides of trench and hole excavations not exceeding 1,5 m deep (LI)	m ²	244
15	Sides of bulk excavations exceeding 1,5m deep (LI)	m ²	138
	<u>Keeping excavations free of water</u>		
16	Keeping excavations free of water		Item
	<u>FILLING, ETC. OTHER THAN BULK</u>		
	<u>Topsoil filling obtained from the excavations and/or prescribed stock piles on site</u>		
17	Over site (LI)	m ³	33
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 100m from perimeter of excavations or stock piles compacted to 90% Mod AASHTO density</u>		
18	Backfilling to trenches, holes, etc (LI)	m ³	20
	<u>Soilcrete backfilling with 8% batch mixing</u>		
19	Backfilling behind pit walls (LI)	m ³	67
	<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>		
20	Under floors, steps, pavings, etc (LI)	m ³	36
	<u>Coarse river sand filling</u>		
21	Under floors, etc (LI)	m ³	6
	<u>Compaction of surfaces</u>		
22	Compaction of ground surface under floors, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 90 % Mod AASHTO density (LI)	m ²	264
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	<u>Prescribed density tests on filling</u>		
23	"Modified AASHTO Density" test	No	5
	<u>SOIL POISONING</u>		
	<u>"Clordane" or "Aldrin" type mixed with water to manufacturers specifications and applied at a rate of not less than 5 litres per square meter.</u>		
24	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	296
25	To bottoms and sides of trenches, etc,	m ²	254
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>General</u>		
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G 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 architect. (Test cubes are measured separately)		
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.		
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>15Mpa concrete</u>		
26	Surface blinding under footings and bases	m ³	4
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	<u>25MPa/19mm concrete</u>		
27	Column bases	m ³	4
28	Strip footing	m ³	18
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>25MPa/19mm concrete</u>		
29	Strip footings	m ³	13
30	Pit raft slab	m ³	4
	<u>TEST BLOCKS</u>		
31	Allow for necessary concrete test cubes size 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Method 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent	No	7
	<u>FORMWORK CLASS F1 (ORDINARY FINISH)</u>		
	<u>Formwork to sides</u>		
32	Steppings in foundations	m ²	4
33	Sides of concrete bases	m ²	6
34	Not exceeding 300mm high to sides of raft slab	m	21
	<u>REINFORCEMENT</u>		
	<i><u>The following in high tensile steel reinforcement to structural concrete:</u></i>		
35	10mm Rods in columns, walls, beams, slabs, etc.	t	0.11
36	12mm Rods in columns, walls, beams, slabs, etc.	t	0.13
	<u>Fabric reinforcement</u>		
37	Type 395 fabric reinforcement in concrete foundations	m ²	43
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BRICKWORK

SUPPLEMENTARY PREAMBLES

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Samples

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

Brickwork Bond

All brickwork shall be laid in stretcher bond unless otherwise stated

Wire ties

All wire ties are to be galvanised concertina ties. Ties shall be of sufficient length to allow not less than 75mm of each end to be built into the brickwork. Ties are to be spaced at intervals of not more than 110mm in the horizontal direction and not more than 425mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

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Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

38	Piers	m ³	0.4
39	Half brick walls	m ²	3
40	One brick walls	m ²	62

Brickwork reinforcement

41	75mm Wide built into walls	m	34
42	150mm Wide reinforcement built in horizontally in foundation	m	560

FACE BRICKWORK

Note: All fair cutting to be done by means of an approved high speed masonry cutting saw.

Raked and pointed joints must not exceed a depth of 6mm

External facings in "Corobrik Firelight Satin (FBX)" face bricks pointed with square recessed horizontal and vertical joints

43	Extra over brickwork for face brickwork in foundations	m ²	26
44	Header brick on edge coping 220mm wide build fair and pointed on top and one side	m	3

BLOCKWORK

SUPPLEMENTARY PREAMBLES

Block Walls

Block walls are to build with standard 390 x 190 x 190mm building blocks

Compo Mortar for Concrete Brick or Block Walls

- a). Mortar for foundation brickwork or loadbearing brickwork: - shall be composed of one packet (50kg) cement (OPC), 5 litre (0.005 m³) of lime and 130 litre (0,13 m³) of sand

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	b). Mortar for superstructure brickwork: - shall be composed of one packet (50kg) cement (OPC), 33 litre (0.033 m3) of lime and 200 litre (0,2 m3) of sand.		
	<u>Blockwork in Compo mortar with cores filled solid with mortar or 10MPa concrete in foundations</u>		
45	190mm Tank wall built against vertical waterproofing membrane	m ²	130
	<u>BLOCKWORK SUNDRIES</u>		
	<u>Brickwork reinforcement</u>		
46	150mm Wide reinforcement built in horizontally in foundation	m	686
	<u>WATERPROOFING</u>		
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>		
	<u>One layer of 500 micron "CONSOL PLASTICS HYPERLASTIC ORANGE" waterproof sheeting sealed at laps with "SUPERSTIK" tape</u>		
47	Under surface beds	m ²	153
	<u>PLASTERING</u>		
	<u>INTERNAL PLASTER</u>		
	<u>Cement plaster with Dricon sealing agent added in accordance with the manufacturer's specification and with a smooth trowelled finish on</u>		
48	Blockwork walls in toilet pits	m ²	162
	<u>External Cement Plaster</u>		

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	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>Cost of tests</u>			
	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 architect. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
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Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

TEST BLOCKS

- 1 Allow for necessary concrete test cubes size 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Method 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent

No 6

REINFORCED CONCRETE

25 MPa/19 mm concrete

- 2 Surface beds cast in panels on waterproofing
- 3 Slabs including beams and inverted beams (LI)
- 4 Ramps, etc. (LI)

m³ 27

m³ 9

m³ 0.3

CONCRETE SUNDRIES

Sleeves

- 5 Sleeve formed of 130mm long black PVC pipe welded to 100mm long PVC pipe with single socket and cast into concrete

No 14

Finishing top surfaces of concrete smooth with a wood float

- 6 Surface beds, slabs, etc (LI)
- 7 Surface beds, slabs, etc to falls (LI)

m² 63

m² 7

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	<u>Finishing top surfaces of concrete smooth with a power float</u>		
8	Surface beds, slabs, etc	m ²	59
	<i>(WORK GROUP 111)</i>		
	<u>FORMWORK CLASS F1 (ORDINARY FINISH)</u>		
	<u>Formwork to soffits</u>		
9	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m ²	31
	<u>Boxing in formwork to form</u>		
10	25 x 25 mm Splayed corner	m	3
11	200mm Diameter opening through 200mm thick slab	No	16
	<u>FORMWORK CLASS F2 (SMOOTH FINISH)</u>		
	<u>Formwork to sides</u>		
12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	68
13	Ditto, to form openings in slab including 50 x 20mm rebate in top edge for manhole cover frame	m	17
	<u>MOVEMENT JOINTS, ETC</u>		
	<u>Two layers of 3 ply malthoid laid loose on top as slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>		
14	Not exceeding 300mm wide	m	51
	<u>Expansion joints of "Sondor Jointex" closed cell expanded polyethylene between vertical concrete surfaces</u>		
15	10mm Joints not exceeding 300mm high with 10mm high tear off strip at top (Provisional)	m	1
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	<u>Expansion joints of "Sondor Jointex" closed cell expanded polyethylene between vertical concrete and brick surfaces</u>		
16	10mm Joints not exceeding 300mm high with 10mm high tear off strip at top (Provisional)	m	108
	<u>REINFORCEMENT</u>		
	<u>The following in high tensile steel reinforcement to structural concrete:</u>		
17	8mm Rods in rafts, slabs, etc.	t	0.01
18	10mm Rods in ditto	t	0.33
19	12mm Rods ditto	t	0.37
	<u>Welded steel fabric reinforcement including laps (measured net)</u>		
20	Type 193 reinforcement in concrete surface beds, slabs, etc	m ²	114
21	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	33
	<u>SUNDRIES</u>		
22	Allow for all cover blocks and spacers.		Item

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PRECAST CONCRETE			
PREAMBLES			
For Preambles refer to "Model Preambles for Trades 2008"			
SUPPLEMENTARY PREAMBLES			
<u>Sizes</u>			
Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made			
<u>General</u>			
Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming			
<u>User note</u>			
Where precast concrete copings, sills, beams, facings, claddings, etc are specially designed then the relevant supplementary preambles are to be included here. Items are to be given with brief descriptions referring to detailed drawings annexed to these bills of quantities where necessary			
PRESTRESSED PRECAST CONCRETE LINTOLS			
1	Set of two 70 x 110mm lintols in lengths not exceeding 3m long	m	7
PRECAST CONCRETE SLABS ETC			
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Precast concrete cover slab 100mm thick formed of 25MPa/19mm concrete with Class U1 smooth finish on exposed surfaces with ref. 193 mesh reinforcement and two Y10 x 530mm girth U-shaped lifting handles, bent four times to shape and cast into concrete, etc. laid on brick walls

2	Cover slab size 990 x 970mm	No	2
3	Cover slab size 1100 x 375mm	No	8
4	Cover slab size 1155 x 970mm	No	8
5	Cover slab size 1265 x 970mm	No	2
6	Cover slab size 1820 x 375mm	No	2

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<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>Samples</u>			
Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site			
<u>Brickwork Bond</u>			
All brickwork shall be laid in stretcher bond unless otherwise stated			
<u>Wire ties</u>			
All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties			
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BRICKWORK

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	Piers	m ³	1
2	Columns not exceeding six bricks girth	m ³	0.2
3	Half brick walls	m ²	74
4	Half brick wall in beam filling	m ²	23
5	One brick wall	m ²	565
6	One brick wall in beamfilling	m ²	87

BRICKWORK SUNDRIES

Bagging of 1:3 cement and sand mixture

7	Outer face of inner skin of external brick wall and paint two coats "Brixal" bitumen paint (Provisional)	m ²	144
8	Fill top of half brick wide door frames with cement mortar	m	4

Brickwork reinforcement

9	75mm Wide reinforcement built in horizontally	m	89
10	150mm Wide reinforcement built in horizontally	m	781

Prestressed fabricated lintels

11	140 x 75mm Lintels in lengths not exceeding 3m	m	8
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Turning pieces

12	110mm Wide turning piece to lintels, etc	m	7
13	230mm Wide turning piece to lintels, etc	m	12

Galvanised hoop iron cramps, ties, etc

14	38 x 1,6mm Roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	37
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	<u>Air bricks etc (Provisional)</u>		
15	Set of four 229 x 152mm clay vermin proof air bricks	No	8
	<u>FACED BRICKWORK</u>		
	<u>Note:</u> All fair cutting to be done by means of an approved high speed masonry cutting saw.		
	Raked and pointed joints must not exceed a depth of 6mm		

	<i>External facings (PC Amount R 10,000.00/ thousand NET delivered on site) build in stretcher bond and pointed with square recessed horizontal and vertical joints</i>		
16	Extra over ordinary brickwork for facing and pointing in stretcher bond	m ²	285
17	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m ²	14
18	Extra over brickwork for face brickwork to piers	m ²	7
19	Fair raking cutting	m	29
20	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	20
	<u>Brick-on-edge header course copings, sills, etc of "Corobrick Firelight Satin (FBS)" face bricks pointed with square recessed joints on all exposed faces</u>		
21	220mm Wide lintel course pointed on 110mm wide projecting soffit and one side	m	10
22	220mm Wide lintel course to correspond in height with adjoining facebrick courses pointed on face and 110mm soffit	m	13
23	220mm Wide lintel course to correspond in height with adjoining facebrick courses pointed on both faces and 220mm soffit	m	5
24	220mm Wide sill set sloping and slightly projecting	m	11
	<u>EXTERNAL WINDOW SILLS</u>		
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25	<p><u>Precast concrete sill left smooth form the mould</u></p> <p>100mm wide set raking and 10mm projecting</p>	m	114	
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	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikqrip DPC" embossed damp proof course</u>			
1	In walls	m ²	84	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m ²	177	
3	Vertically between 100mm edge of surface beds and brick walls	m	89	
	<u>JOINT SEALANTS, ETC</u>			
	<u>"Sikaflex Facade AT" or other approved two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
4	10 x 10mm In expansion joints in floors	m	80	
	<u>Clear silicone sealant</u>			
5	Sealing galvanised steel window frames against face brick walls	m	18	
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	Waterproofing			
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	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS, ETC</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>REMEDIAL WORK</u>			
	<i>Check existing roofs, secure all loose roof screws, replace washers where required to ensure a watertight covering</i>			
1	IBR roof covering on existing timber purlins	m ²	1 622	
	<u>METAL SHEETING AND ACCESSORIES</u>			
	NOTE: The contractor is to submit a certificate signed by the merchant, stating that the roof covering supplied complies with the required thickness specified.			
	<u>Global Roofing Solutions 0.58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Ultim® Z275 spelter ISQ550 finish topcoat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres (final spacing to be calculated by an Engineer) using KL700 plus clips fixed with 10No.11 x 45mm long self-drilling wafer head PH2 screws, type 17 drill point fasteners (fastener lengths may vary depending on the insulation used or requirements), all following the manufacturer's specifications by a GRS approved contractor.</u>			
2	Roof covering in single sheets with pitch not exceeding 25 degrees	m ²	251	
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	<u>0,8mm Cromadek finished sheet steel roofing accessories to match roof sheeting</u>		
3	Ridge capping 462mm girth, three times bend to detail	m	178
4	Gable/barge trim 385mm girth, three times bend to detail	m	138
5	Profiled broad flute closer to apex	m	356
	<u>Sundries</u>		
6	Moulded narrow or broad flute polyclosures to apex	m	356
	<u>ROOF AND WALL INSULATION</u>		
	<u>"Sisalation FR430" industrial grade glass fibre reinforced aluminium foil bonded insulation</u>		
7	Insulation laid taut over rafters (at approximately 760mm centres) and fixed concurrent with purlins, etc.	m ²	1 127
	<u>FLASHINGS, LININGS, COPINGS, ETC</u>		
	<u>Five coats fibre reinforced heavy duty maintenance free acrylic waterproofing</u>		
8	Collar round pipe not exceeding 100mm internal diameter.	No	16

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Roof Coverings, etc

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Roof Coverings, etc

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	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>Specification for fixing</u>			
	Unless otherwise described, all carpentry and joinery work must be securely fixed with all timber components nailed. Other methods of fixing are specifically described as follows:			
	(i) the term "bolted" means fixing with bolts, bolts and holes are measured elsewhere.			
	(ii) the term "pinned" or "nailed" means fixing with nails, hardened steel nails or wire nails as required, to and including hardwood plugs in brickwork or concrete.			
	(iii) the term "plugged and screwed" means fixing with screws to and including patent fibre or plastic plugs in brickwork or concrete.			
	(iv) the term "plugged and pelleted" means plugged as previously described, screwed with heads of screws sunken and pelleted with pellets of the same type of wood.			
	<u>Finger jointing:</u>			
	The manufacture of finger-jointed structural timber shall comply with SABS 096 and branded accordingly.			
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	Carpentry and Joinery			
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Pretreatment of timber

All timber including scaffolding, formwork, etc. used on site shall be free of borer or other beetle and termite infection. All permanent softwood fixed in buildings shall be treated against borer, etc. in accordance with Government Notice R451 of 1969-03-28 using Class B or C preservative. The type of preservative used shall be appropriate to the use of the timber. Any prescribed treatment shall comply with SABS 05

When treated timbers are cut, the cut surfaces shall be effectively brushed with at least two coats of preservative solution.

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES

GENERAL

TIMBER AND METAL CONNECTOR PLATES

Prefabricated Timber Roof Trusses are based on SANS 10160, 10163 & 10243 and connected with an accredited Engineering System's nail plates as per their design and supplied by an accredited ITC-SA Fabricator

TRUSS CONNECTION

The trusses shall be constructed with jigs specially designed to provide correct cambers and pitches.

All joints are to be close fitted butt joints and made by precision pressing of the metal connector plate into each side of the joint

TRUSS LOADING

The dead load of the trusses shall be to accommodate metal roof sheeting on 50 x 75mm SA Pine battens, a 9mm skimmed gypsum and / or 6mm fibre cement board ceiling nailed on 38 x 50mm brandering at 300 or 600mm centres in one direction, 135mm thick thermal insulation and Sisalation FR420 Fire Retardant grade aluminium foil based insulation

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TRUSS DESIGN

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

In designing all the trusses, etc., note must be taken of the adverse weather conditions which prevail from time to time in the area in which they are to be erected

TRUSS SPACING

The truss centres shall be as described in the Bills of Quantities for each respective truss type, or such other truss centres specified on the engineer's or fabricator's drawings

TRUSS PITCH

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

PREFABRICATED ENGINEERED ROOF TRUSSES

Prefabricated timber roof construction complete (including battens and/or purlins, wall plates, bearers, bracing, etc.) designed, constructed, delivered and erected by an approved firm of specialists, under a written guarantee. Both the design and design guarantee shall be lodged with the project manager for approval before the work is commenced. Once erected an erection certificate shall be supplied to the Project Manager (Refer to drawings annexed to these bills of quantities)

Supply, fabricate and deliver to site of roof structure

Engineer's Certificate

1	Provide an engineer's certificate covering the design of the plate nailed timber roof structure to all three sections	No	1.00
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	<u>Supply, fabricate and deliver to site of roof structure</u>		
2	Ditto, over new single storey guard house 2,80 x 3,0m approximately 10m ² with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	10
3	Ditto, over new single storey toilet block NB4 7,80 x 4,0m approximately 32m ² with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	26
4	Ditto, over new single storey toilet block (NB6) 6,36 x 4,92m approximately 32m ² with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	31
5	Ditto, over new single storey toilet block (NB10) 9,69 x 3,95m approximately 39m ² with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	38
6	Ditto, over new single storey toilet block (NC) 8,20 x 6,4m approximately 81m ² with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	81

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7	Ditto, over existing single admin block (B) 32.056 x 10,031m area approximately 322m2 with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	325
8	Ditto, over existing single storey classroom block (C) 55.264 x 8,938m area approximately 494m2 with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	508
9	Ditto, over existing single storey classroom block (D) 47,606 x 9,399m area approximately 448m2 with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	445
10	Ditto, over existing single storey classroom block (I) 10.667 x 9,339m area approximately 100m2 with 26 degree double pitch roof and two gable ends complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)	m ²	100

Erection on site of roof structures as detailed above

Engineer's Certificate

11	Provide an engineer's certificate covering the erection of the plate nailed timber roof structure over all three sections	No	1.00
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Erection

12	Roof structure over building NA approximately 10m2	m ²	10
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13	Roof structure over building NB4 approximately 32m2	m ²	26
14	Roof structure over building NB6 approximately 32m2	m ²	31
15	Roof structure over building NB10 approximately 39m2	m ²	38
16	Roof structure over building NC approximately 81m2	m ²	81
17	Roof structure over existing building B approximately 325m2	m ²	325
18	Roof structure over existing building C approximately 508m2	m ²	508
19	Roof structure over existing building D approximately 445m2	m ²	445
20	Roof structure over existing building E approximately 483m2	m ²	100

ROOFS, ETC

The following in repairs to existing roofs in replacement of existing damaged members

Sawn softwood

21	38 x 114mm Wall plates (Provisional)	m	17
22	38 x 176mm (Grade 6) Rafter in single lengths exceeding 3,9m and not exceeding 6,6m long (Provisional)	m	120
23	50 x 76mm Purlins (Provisional)	m	308

Wrought softwood

24	70 x 76mm Splayed purlins	m	308
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Wrought Laminated South African Pine

25	50 x 228mm Laminated beam	m	169
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SUNDRIES

26	Three coats carbolineum on sawn timbers	m ²	325
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EAVES, VERGES, ETC

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	<u>Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225 x 12mm, fixed to 50 x 76mm tilter purlin and 50 x 76mm support purlins between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiner between boards and at board ends.</u>		
27	15 x 225mm Fascia board countersunk screwed to support and roof timbers (elsewhere) with two brass screws at maximum 750mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	372
28	Ditto, barge/gable trim, ditto	m	138
	<u>DOORS, ETC</u>		
	<u>Wrought Meranti doors</u>		
29	40mm Framed, ledged and braced batten door 813 x 2 032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge, 10 x 150mm braces filled in with 20mm V-jointed one side boarding and 6mm solid plywood flush back	No	22
30	Ditto, 1,00 x 2,032mm	No	1
	<u>Semi-solid core flush doors with commercial veneer (suitable for paint) on both sides and consealed edges, hung to steel frames</u>		
31	40mm Door 813 x 1 850mm high	No	13
32	40mm Door 813 x 2,032mm high	No	2
	<u>SKIRTINGS</u>		
	<u>Wrot Meranti</u>		
33	67 x 19mm Standard Meranti skirting with 19x14mm Meranti Quadrant fixed to wall with casting nails	m	521
	<u>FITTINGS</u>		
	<u>The following in "Best Board" felt pinning boards fixed to walls as per manufacturers specifications</u>		
34	3000 x 1200mm High	No	36
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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>NOTE:</u>			
	Tenderer s are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>CEILINGS</u>			
	<u>NAILED UP CEILINGS</u>			
	<u>NUTEC Ceiling boards</u>			
	<i>Ceiling formed of 4 mm thick boards with and including pre primed H-section cover strips neatly mitred at intersections and countersunk screwed at 150mm centres with 32mm coarse thread to and including 38 x 50 mm SA Pine (grade 7) brandering at 450 mm centres in one direction securely spiked to roof timbers and ceiling joists (elsewhere)</i>			
1	Ceilings	m ²	5	
	<i>Ceiling formed of 6 mm thick fibre cement boards with and including pre primed H-section cover strips neatly mitred at intersections and countersunk screwed at 150mm centres with 32mm coarse thread to and including 38 x 50 mm SA Pine (grade 7) brandering at 400 mm centres in one direction securely spiked to roof timbers and ceiling joists (elsewhere)</i>			
2	6mm Fibre cement ceilings	m ²	148	
3	6mm Eaves covering including brandering	m ²	274	
4	Vertical gable end closer notched around roof timbers	m ²	28	
5	Splay cutting and waste	m	18	
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	Ceilings, Partitions and Access flooring			
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	<u>RhinoBoard® 9mm (locally manufactured ISO 9001 & 14001 certification recycled paper content Greentag Level B) with and including pre primed H-section cover strips neatly mitred at intersections and countersunk screwed at 150mm centres with 32mm coarse thread to and including 38 x 50 mm SA Pine (grade 7) branderling at 400 mm centres in one direction securely spiked to roof timbers and ceiling joists (elsewhere)</u>		
6	Ceilings	m²	960
	<u>Top Hinged ceiling access panel comprising 600 x 600mm White epoxy coated aluminium T-frame with powder coated lid, fitted flush to ceiling, pop rivetted through stalk of T-frame into 25 x 25mm galvanised steel angle.</u>		
7	Extra over ceilings for access panel comprising 635 x 635mm white epoxy coated steel pan in a top hinged option as supplied by Pelican Systems fitted flush to ceiling with and including screw fixing stalk of T frame into 38 x 50mm softwood branderling support sub-frame	No	18
	<u>Sundries</u>		
8	75mm Gyproc Rhino Cove Cornice (Provisional)	m	35
9	19 x 76mm SA Pine cornice plugged to wall with 19mm quadrant bead planted on	m	941
	<u>INSULATION</u>		
	<u>Isotherm 135mm thick thermally bonded polyester thermal insulation (Density: 10 kg/m³), complying with SANS1381-1:2013, laid over ceiling branderling closely fitted between rafters. R-value: 3,14m².K/W/ Thermal conductivity: 0,039 W/mK</u>		
10	135mm Thick on top of ceilings	m²	1 106

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Ceilings, Partitions and Access flooring

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Section No. 2

Bill No. 9

Ceilings, Partitions and Access flooring

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Bill No. 9

Ceilings, Partitions and Access flooring

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	<p><u>SECTION No. 2</u></p> <p><u>BILL No. 8</u></p> <p><u>FLOOR COVERINGS, WALL LININGS, ETC.</u></p> <p><u>Note:</u> Tenderers are advised to study the Specification of Materials and Methods to be used before pricing this bill</p> <p><u>Note:</u> Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group no. 130 for CPAC JBCC purposes</p> <hr/> <p><u>VINYL TILE FLOORING</u></p> <p><u>FloorworX Floorflex® semi flexible vinyl floor tiles colour as per architect, size 300 x 300 x 2.0mm thick, manufactured in accordance with SANS 581, laid in FloorworX No. 62 acrylic adhesive spread with a trowel fitted with an A2 notched blade at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (elsewhere specified) in accordance with SANS 10070, using FloorworX Self Leveller when required and rolled with 68kg three section metal roller on completion. adhesive in strict accordance with the manufacturers specifications.</u></p>			
1	On screeded floors	m ²	1 226	
	<p><u>CARRIED FORWARD TO SUMMARY OF SECTION No: 2</u></p> <p>Section No. 2 Bill No. 10 Floor Coverings</p> <p>SEPTEMBER 2022</p>			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 9</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list			
BS	Satin bronze lacquered		
CH	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		
<u>Fixing</u>			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete			
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Ironmongery			
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<u>HINGES, BOLTS, ETC</u>		
<u>"Solid"</u>		
1	"293/E41" WC indicator bolt with keep fixed to meat and satin chromium plated finish	No 17
<u>LOCKS</u>		
<u>"Union"</u>		
2	"MG47" 47mm padlock	No 6
3	"Union" lockset consisting of Dove lever handles on 150 x 45 x 10mm concealed fixing backplates (Code AL6D45-05AB), Euro profile cylinder lock case (Code L-22315-76SS) with Euro profile double cylinders (Code 2x810/62PLKA)	No 24
4	37651 Helping hand facility indicator bolt with keep fixed to metal	No 1
<u>LETTERS, NAMEPLATES, ETC (PROVISIONAL)</u>		
5	3mm Thick clear perspex numeral plate 32mm high reverse engraved and enamelled in two 20mm high numerals and/or letters, twice countersunk holed for and screwed to door with chromium plated dome headed screws	No 24
<u>"Union" 150 x 150mm anodised silver aluminium plate with symbols according to international colour codes, plugged.</u>		
6	"AL5022-E10AS" with Ladies/Gents symbol	No 4
7	"AL5022-E14AS" with Paraplegic symbol	No 1
<u>Sundries</u>		
8	28mm Diameter x 1mm thick brass key label with 12mm high stamped number or letters and holed for and including stainless steel split key ring	No 43
9	175mm Cast brass sliding stay with screws	No 6
10	300mm Cast brass casement stay	No 7
11	Cast brass spring loaded window latch	No 4
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12	Solid cast brass casement window handle with bush and screw	No	12
<u>BATHROOM FITTINGS</u>			
13	Stainless steel vandal proof toilet roll holder plugged	No	13
<u>"Chairman Industries" [Tel. (011) 624 1222]</u>			
14	"SR2" 32mm diameter stainless steel rear grab rail around WC flushvalve bolted with non-rust expansion bolts	No	1
15	"DL3" 32mm diameter side grab rail bolted with non-rust expansion bolts	No	1
<u>SUNDRIES</u>			
16	38mm Diameter rubber door stop plugged	No	42

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Ironmongery

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Bill No. 11

Ironmongery

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Ironmongery

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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>HOT DIPPED GALVANISED STEEL POSTS</u>			
1	75mm Diameter x 3mm wall thickness column 2,75m long top fitted with and including 6 x 50mm mild steel bracket 280mm long once bend and twice holed for bolts welded on and bottom fitted with 150 x 150 x 6mm baseplate four times holes for bolt	No	47	
2	Bolts with nuts and washers	kg	11	
3	M8 x 75mm expansion bolt including mortice in concrete or brickwork	No	188	
	<u>WELDED GALVANISED STEEL SCREENS, GATES, ETC</u>			
	<u>Gates to entrance doors</u>			
4	50 x 50 x 3mm Square tube frame bolted to wall (bolts and holes for bolts elsewhere)	m	26	
5	Extra for mitred and welded angle	No	10	
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6	Hole through 3mm thick wall of tubing for 8mm diameter bolt (elsewhere)	No	30
7	Hole through 3mm thick wall of tubing for wrench socket	No	30
8	M8 x 70mm expansion bolt	No	30
9	Single gate, size 843 x 2170mm high formed of 40 x 60 x 3mm rectangular tube framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails and five 19mm diameter rod vertical bars framed through intermediate rails with all ends welded to framing, gate complete with one-and-a-half pair pin hinge 80mm long overall with 15mm diameter pin 30mm long welded to grille gate and frame and complete with padlock plate to detail	No	3
10	Ditto, size 1000 x 2170mm high , ditto	No	2
<u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u>			
<u>1,2 mm Double rebated frames suitable for half brick walls with two 100mm steel butt hinges per door leaf</u>			
11	Frame for door 44 x 813 x 2 032mm high	No	23
<u>1,2 mm Double rebated frames suitable for one brick walls with hinges (elsewhere measured) fitted to frame</u>			
12	Frame for door 44 x 813 x 2 032mm high	No	21
13	Frame for door 44 x 1000 x 2 032mm high	No	1
<u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC</u>			
<u>NOTE:</u> Windows with frames to conform with SANS Specification No 727 and with purpose made burglar proofing formed of 20 x 5mm thick mild steel flat section bar, bent to be 75mm away from glass surfaces and horizontally welded to window frames with pattern similar to "SWADA NBP2"			
<u>Standard mild steel residential windows fitted with 20 x 5mm mild steel flat section galvanised burglar bars</u>			
14	Window type NE1 size 533 x 654mm	No	28
15	Window type ND7 size 1.00 x 1.245	No	2

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Metalwork

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	<u>Standard mild steel school windows fitted with 20 x 5mm mild steel flat section galvanised burglar bars</u>		
16	Window type SS33 size 987 x 654mm	No	3
17	Window type C8H size 1022 x 949mm	No	4
	<u>Standard mild steel school windows fitted with 20 x 5mm mild steel flat section galvanised burglar bars to match existing windows</u>		
18	Window type size 961 x 1187mm	No	30
19	Window type size 962 x 1421mm	No	49
20	Window type size 954 x 1190mm	No	28
21	Window type size 962 x 1173mm	No	2
	<u>HOT DIPPED GALVANISED STEEL SECURITY GATES</u>		
	<u>Welded mild steel security consisting of 40 x 40 x 2mm security gate frame welded to pressed steel door frame; gate formed of 40 x 40 x 2mm SHS mitred surround frame and two 5 x 40mm flat section horizontal rails filled in with 5 x 16mm diameter vertical balusters let through flat bar horizontal rails and into SHS surround frame, fitted with three 16mm diameter x 80mm bullet hinges and "Union" narrow style Euro profile cylinder dead lock case (Code L-21315-40) and Euro profile double cylinders (Code 2x810/62PLKA) as per detailed drawing.</u>		
22	Overall size 813 x 2032mm high fixed in double rebated steel door frame.	No	18
	<u>BURGLAR BARS</u>		
	<u>Burglar bars formed of 5 x 25mm flat bar in both directions to form squares not exceeding 200 x 200mm welded to existing window frames</u>		
	<u>Sizes are approximately and final measurements must be taken on site</u>		
23	Window size 1022 x 654mm	No	13
24	Window size 1022 x 949mm	No	15
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WRITING BOARDS

25	Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. One swing leaf (LH) including white 50 x 50 mm squares, reference (1021), permanently screened on to the rear face and the other swing leaf (RH) to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face. Board supplied complete with continuous Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork.	No	17
26	Vitrex Model 2200 standard vitreous enamel steel wall mounted educational range magnetic white board, overall size 1200 mm high x 1800 mm wide, consisting of one standard boards size 1200 mm high x 1800 mm wide, reference (2208), complete with integral anodised aluminium pen rail, fixing components and secured in position to brickwork.	No	5

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Metalwork

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Metalwork

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Metalwork

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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 11</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SCREEDS</u>			
	<u>NOTE:</u>			
	The finishes to concrete floors and screeds are to comply to the highest SABS to flatness of accuracy 1 of table 4 of SABS 0109-2:1992 and permissible deviation in floors will be grade 1 as per table A1 SABS 070:1991. For vinyl floors the flatness degree of accuracy will not exceed SABS degree of accuracy 1 as per table 4 SABS 0109-2:1992 and the maximum tolerance will be 1mm			
	<u>Granolithic screeds on concrete</u>			
1	30mm Thick on floors wood floated to receive ceramic tiles	m ²	96	
2	35mm Thick on floors steel floated to receive vinyl tiles	m ²	389	
	<i>Special screeds with a compressive strength of 25MPa</i>			
3	35mm Thick on floors to receive epoxy flooring	m ²	305	
	<u>Plaster mix for rough brick walls, composed of one part Surebuild 42,2N cement (Code: CEM II/B 42,5N) and 4 parts washed plaster sand 10mm - 20mm thick finished with a wood float to rough brick walls. Surebuild cement is to be manufactured in accordance with SANS 50197-1. Cement plaster shall be produced in such quantities as can be used before commencing to set as no cement plaster that has once commenced to set shall be used in any way. Care shall be taken in mixing cement plaster to remove from platform any old plaster that has already set as such plaster may not be incorporated into any new batch.</u>			
	<u>INTERNAL PLASTER</u>			
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	Plastering			
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<u>1-5 Cement plaster finished with a steel trowel on concrete:</u>			
<i>On brickwork</i>			
4	On walls	m ²	1 151
5	On walls in patchwork	m ²	45
6	On narrow widths	m ²	18
<u>EXTERNAL PLASTER</u>			
<i>On brickwork</i>			
7	On walls	m ²	532
8	Ditto, on narrow widths	m ²	1
<u>EPOXY FLOORING</u>			
<i>Vuka Flow Quartz solvent free epoxy flooring of approved colour installed by specialist installer</i>			
9	2mm Thick to screeds	m ²	305
10	Skirting 3 x 75mm high	m	146
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Bill No. 13

Plastering

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<u>BILL No. 12</u>			
<u>TILING</u>			
NOTE : The Contractor is referred to the Model Preambles (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<u>ADHESIVE SYSTEM</u>			
<p>(TAL) Allow all new concrete work and screeds to cure for at least 28 days before proceeding. All new concrete work and screeds must have a moisture content of 5% or less before tiling can be commenced. All screeds must be firmly attached to the underlying concrete, must be integrally sound and must be of a quality and consistency suitable for tiling. All defective areas must be removed and the floor made good before proceeding. Apply TAL Gold Star 6 rapid setting adhesive mixed 20kg with 5 litres of TAL Bond (replacing the water in the mix) using a notched TAL floor Trowel. Grout with TAL Fine Epoxy grout.</p> <p>Full body porcelain tiles (colour by architect), size 300 x 300mm, fixed to internal floor screed with TAL Professional tile adhesive mixed with TAL Bond® in lieu of water applied with a notched trowel to provide a solid adhesive bed of 5-6 mm. No voids should be left in the system. Adhesive should not be allowed to dry before application of tiles.</p> <p>Joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.</p> <p>All preparatory work and applications must be done in accordance with the manufacturers specifications and rates must include for this</p>			
<u>MOVEMENT JOINTS</u>			
Suitable movement joints should be located at maximum 4,5 m centres in both directions, horizontally and vertically and within 1 m of all horizontal and vertical corners and against any obstructions fixed to the structural background.			
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SUPPLY OF TILING

The contractors rates must include for wastage, taking delivery, offloading, storing and fixing including tile adhesive and grout

WALL TILING

GLAZED CERAMIC WALL TILING

Union Tiles Yek ceramic tiles (Code: 1YEKWHI WALGLO200), size 200 x 200mm, fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL Bond® in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.

1	On walls	m ²	30
2	Ditto, in narrow widths	m ²	3
3	Window sill formed of 90mm wide cut tile horizontally in window rebate and 90mm high vertical fascia to wall	m	93

FLOOR TILING

PORCELAIN FLOOR TILES

Union Tiles full body porcelain tiles (colour by architect), size 300 x 300mm with a PC sum of R 300-00/m² (Three hundred rand per meter square) (net excluding VAT but including delivery and waste) purchase price installed with approved adhesive and grouted solid with matching grout all strictly in accordance with the manufacturer's specifications to:

4	350 x 350mm To floors, ramps and landings	m ²	5
5	Cut tile skirting 100mm high	m	8

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<u>Class 34 uPVC pipes laid in class B bedding</u>				
1	110mm Pipe and fixing vertically or raking in ramps (no excavation) (LI)	m	5	
2	110mm Pipe and excavations not exceeding 1m deep (LI)	m	26	
<u>Extra over uPVC pipe for fittings</u>				
3	110mm Bend	No	3	
<u>SOAK AWAY SYSTEM</u>				
<u>"Kaytech" or other approved infiltrator system</u>				
4	Soakaway constructed of "Infiltrator Quick 4 Chamber Systems" overall length 2400mm long, complete with two Quick 4 high capacity multiport end caps, 900mm wide x 710mm deep excavations, insitu backfill, topsoil mound with vegetative cover and carting away of excess material, all as per the manufacturers specifications (LI)	No	3	
<u>SUNDRIES</u>				
<u>Extra over excavations in earth for pipe trenches, chambers, etc. for excavation in</u>				
5	Soft rock (LI)	m ³	2	
6	Hard rock	m ³	1	
<u>TESTING</u>				
7	Testing drainage pipe system		Item	
<u>RAINWATER DISPOSAL</u>				
<u>Mr. Gutter Ogee profile Colorbond pre-coated Zinalume seamless gutter, size 150 x 100 x 0,5mm thick in colour to be confirmed by architect including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 800mm centres with rectangular fluted downpipes, size 100 x 75 x 0,5mm thick in colour Armour Grey fixed to walls with pre-painted downpipe cleats using nail-in anchor fixings.</u>				
8	150 x 100mm Eaves gutters	m	371	
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9	Extra over gutter for stopped end	No	36
10	Ditto, for outlet	No	66
11	100 x 75mm Rainwater pipes fixed to wall/columns	m	208
12	Extra over downpipe for shoe	No	66
13	Ditto, for 350mm eaves offset	No	66
<u>WATER SUPPLIES</u>			
<u>High density polyethelene (SABS 533 type 4) pressure pipes including jointing with approved type fittings and couplings</u>			
14	15mm Pipe in ground or filling not exceeding 1m deep	m	65
<u>Extra over HDPE pressure pipes for fittings</u>			
15	15mm Fitting	No	34
<u>Class 2 copper pipes</u>			
16	15mm Pipes chased into masonry	m	12
17	22mm Pipes chased into masonry	m	24
<u>Extra over class 2 copper pipes for capillary fittings</u>			
18	15mm Fittings	No	22
19	15mm Brass wallplate elbow adaptor	No	38
20	22mm Fittings	No	16
<u>Extra over class 2 copper pipes for conex compression fittings</u>			
21	15mm Fittings	No	28
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech"</u>			
22	15mm "1001/125RB" Fullway gate valve	No	3
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23	15mm "232/350" CP angle regulating valve with 350mm long chromium plated flexible supply tube and capnut	No	12
24	Cobra Star Pillar tap. 1/2 BSP male iron connection end (Code: FPT2A1SR0GT01), size 60 x 130 x 150, installed as per manufacturers recommendation.	No	11
25	15mm 503-21 Elbow action pillar tap	No	1
26	"Cobra" Star Sink mixer 166/041 - Wall type sink mixer with aerated swivel outlet 1/2 BSP male inlets. (Code: FSK2W2SR-0GT01, size 90 x 140 x 310mm, installed as per manufacturers recommendation.	No	1
<u>GEYSERS</u>			
<u>"Kwikot"</u>			
27	150l Kwikot high pressure white enameled vertical electrical hot water geyser complete with "kwikflo" K600 pressure control expansion relief valve, ballstop and vacuum breaker etc, fixed in position to wall.	No	1
<u>SANITARY FITTINGS, INCLUDING FIXING IN POSITION, AND ALL CONNECTIONS TO PIPES</u>			
<u>"Atlas Plastics (Pty) Ltd" or other approved</u>			
28	"Atlas Plastics" rotomoulded polyethylene Cindy - 384 wash hand basin colour Granite (Code:384AP), overall size 300 x 405 x 200mm high with 40mm waste outlet, plugged and screwed to wall with galvanised screws.	No	12
29	Atlas Plastics rotomoulded polyethylene Viking close couples suite - 570 colour Granite with seat 570APS, overall size 416 x 690 x 768mm high, with foot of pan grouted to the floor (1:3 cement mortar).	No	8
30	Atlas Plastics rotomoulded polyethylene SC urinal - 511AP colour Granite with 40mm waterless waste - 496 (Code: 101228), overall size 350 x 320 x 470mm high plugged and screwed to wall with galvanised screws and brackets.	No	5

WASTE UNIONS, ETC

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	<u>"Cobra Watertech"</u>		
31	32mm "301" CP basin waste union with back nut, plug and chain	No	17
	<u>TRAPS, ETC</u>		
	<u>'Flexitraps':</u>		
32	32 x 40mm Butyl rubber 'P' or 'S' trap jointed to waste outlet fitting and to UPVC pipe including clamps.	No	17
	<u>SANITARY PLUMBING</u>		
	<u>uPVC pipes</u>		
33	50mm Pipes	m	49
	<u>Extra over uPVC pipes for fittings</u>		
34	50mm Adaptor	No	14
35	50mm Bend	No	12
36	50mm Access bend	No	22
37	50mm Junction	No	8
38	50mm Access junction	No	17
39	110 x 50mm Reducer	No	3
40	110mm Straight pan connector	No	4
	<u>Black PVC UV stabilised pipes</u>		
41	110mm Vent pipes	m	42
	<u>Extra over black PVC UV stabilised pipes for fittings</u>		
42	Vent cowl formed of 110mm vent valve with top cut off and black shade cloth fixed over end of vent pipe	No	14
	<u>WATER SUPPLIES</u>		
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	<u>High density polyethelene (SABS 533 type 4) pressure pipes including jointing with approved type fittings and couplings</u>		
43	15mm Pipe in ground or filling not exceeding 1m deep	m	12
	<u>Extra over HDPE pressure pipes for fittings</u>		
44	15mm Fitting	No	10
	<u>Class 2 copper pipes</u>		
45	15mm Pipes	m	35
46	15mm Pipes chased into masonry	m	15
	<u>Extra over class 2 copper pipes for capillary fittings</u>		
47	15mm Fittings	No	42
	<u>Extra over class 2 copper pipes for conex compression fittings</u>		
48	15mm Fittings	No	13
	<u>Sundries</u>		
49	Extra over excavations in earth for pipe trenches, etc for excavations in soft rock	m ³	2
50	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m ³	1
	<u>TESTING, ETC.</u>		
51	Provide all necessary apparatus, water, etc. for and test the internal hot and cold water reticulation to the satisfaction of the Representative/Agent		Item
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<u>THE FOLLOWING IN RAINWATER STORAGE TANKS</u>			
<u>SITE CLEARANCE ETC</u>			
<u>Site clearance</u>			
52	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc (LI)	m ²	60
<u>Excavation in earth not exceeding 2m deep</u>			
53	Holes	m ³	44
54	Trenches	m ³	11
<u>Extra over trench and hole excavations in earth for excavation in</u>			
55	Soft rock (LI)	m ³	4
56	Hard rock	m ³	2
<u>Extra over all excavations for carting away</u>			
57	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	44
<u>Risk of collapse of excavations</u>			
58	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	91
<u>Keeping excavations free of water</u>			
59	Keeping excavations free of water		Item
<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>			
60	Under floors, steps, pavings, etc	m ³	22
<u>Coarse river sand filling</u>			
61	Under floors, etc	m ³	2
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<u>Compaction of surfaces</u>		
62	Compaction of ground surface under floors, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 90 % Mod AASHTO density	m ² 66
<u>SOIL POISONING</u>		
<u>"Chlordane" soil insecticide</u>		
63	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ² 44
64	To bottoms and sides of trenches etc	m ² 88
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
<u>General</u>		
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G 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 architect. (Test cubes are measured separately)		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
<u>25MPa/19mm concrete</u>		
65	Benching around watertank	m ³ 2
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
<u>25MPa/19mm concrete</u>		
66	Bases	m ³ 11
67	Ground beams	m ³ 11
68	Surface beds on waterproofing	m ³ 11
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	<u>Test blocks</u>		
69	Allow for necessary concrete test cubes size 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Method 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent		Item
	<u>CONCRETE SUNDRIES</u>		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
70	Surface beds, slabs, etc	m ²	66
71	Surface beds, slabs, etc to falls	m ²	44
	<u>FORMWORK CLASS F1 (ORDINARY FINISH)</u>		
	<u>Class F1 Ordinary Finish formwork to sides</u>		
72	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	110
	<u>REINFORCEMENT</u>		
	<u>Welded steel fabric reinforcement including laps (measured net)</u>		
73	Type 193 reinforcement in concrete surface beds, slabs, etc	m ²	66
74	Type 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	66
	<u>BRICKWORK</u>		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
75	One brick walls	m ²	99
	<u>Brickwork reinforcement</u>		
76	150mm Wide reinforcement built in horizontally	m	396
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FACE BRICKWORK

Note: All fair cutting to be done by means of an approved high speed masonry cutting saw.

Raked and pointed joints must not exceed a depth of 6mm

External facings in "Corobrik Firelight Satin (FBS)" face bricks pointed with square recessed horizontal and vertical joints

77	Extra over brickwork for face brickwork in foundations	m ²	66
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WATERPROOFING

One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"

78	Under surface beds	m ²	44
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SANITARY PLUMBING

Galvanised steel pipes

79	15mm Pipes	m	11
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Extra over galvanised steel pipes for steel fittings

80	15mm Fittings	No	23
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Valves, etc, including joints to steel pipes and/or fittings unless otherwise described

81	15mm "Cobra 200-20RB" bib tap	No	11
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Green polyethylene water tanks etc

82	5000 Litre low profile cylindrical tank complete with lid, embedded in pedestal approximately 0,4m high above ground level, fixed with 12mm chains fitted into hose pipes to hooks cast into concrete slab of stand (stand elsewhere measured)	No	11
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83	Outlet union for 15mm steel pipe including hole through tank	No	11
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TANKS, ETC.

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Jojo polyethylene water tanks etc.

- 84 5000L cylindrical tank complete with lid approximately 0.5m high above ground level on brickwork and reinforced concrete stand tied down as directed structural engineer

No

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TESTING, ETC.

- 85 Provide all the necessary equipment, water, etc. for and test the internal and external water supply and waste sanitary plumbing system complete

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	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>Preambles</u>			
	For Preambles refer to Standard Preambles To All Trades WB20-1986 and Supplementary Preambles Sup 1 to Sup 5			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass and glazing in steel frames with putty</u>			
1	Panes exceeding 0,10 and not exceeding 0,50m ²	m ²	141	
2	Ditto, in existing window frames including removing existing broken glass and putty and prepare to receive new glass, ditto (Provisional)	m ²	8	
	<u>4mm Obscure glass and glazing in steel frames with putty</u>			
3	Panes exceeding 0,10 and not exceeding 0,50m ²	m ²	8	
	<u>6,38mm Clear laminated safety glass</u>			
4	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	3	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
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5	<p><u>6mm Silvered float glass copper backed mirrors with 46mm bevelled polished edges all round, holed for and plugged to brickwork or concrete with and including four 40mm x No.8 brass mirror screws with chromium plated dome caps and thick felt washers</u></p> <p>6mm Mirror 300 x 400mm high with four screws</p>	No	12		
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Glazing

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	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON PLASTER, ETC.</u>			
	<i>Prepare and apply one coat "Dulux" Primer for new Plaster (Code: D36) , and three coats "Dulux" Trade 100 Low Sheen (Code: T2001) acrylic:</i>			
1	On internal plastered walls	m ²	1 299	
	<i>Prepare and apply one coat "Dulux" Trade Plaster Primer for new Plaster (Code: T1001) , and three coats "Dulux" Weathershield (Code: T4007) acrylic:</i>			
2	On external plastered walls	m ²	336	
	<u>ON FIBRE-CEMENT</u>			
	<i>Prepare and apply one coat "Dulux" primer for new plaster (Code: D36) , one coat "Dulux" Trade filler coat (Code: T1007) and three coats "Dulux" Trade 100 Matt (Code: T2005) acrylic:</i>			
3	Fibre cement ceilings	m ²	385	
4	Gypsum board ceilings with metal joint strips	m ²	960	
	<i>Prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Weatherguard Ultra smooth (Code: D62) acrylic:</i>			
5	On fascias and barge boards	m ²	231	
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	<u>Prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Rainshield (Code: D59) acrylic:</u>		
6	Precast concrete window sills not exceeding 300mm girth	m	136
	<u>ON METAL</u>		
	<u>Prepare and apply two coats approved bitumen paint on steel</u>		
7	On back of steel door frames	m ²	51
	<u>Prepare, touch up factory primer and paint one coat "Dulux" Primer for Steel (Code:D1) and one coat "Dulux" universal undercoat (Code: T1001) and two coats "Dulux" Trade Gloss enamel (Code: T3001):</u>		
8	On pressed steel door frames	m ²	65
9	Glazed steel windows (both sides measured)	m ²	345
10	General surfaces of steel gates (both sides measured)	m ²	142
11	Galvanised steel columns not exceeding 300mm girth	m	174
12	600 x 600mm Ceiling access door and frame	No	18
	<u>ON WOOD</u>		
	<u>Sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Dulux Primer for Wood (Code: D33), undercoat with one coat Dulux Universal Undercoat (Code: D34), and finish with two coats Dulux Trade Gloss Enamel (Code: T3001)</u>		
13	On framed panel doors	m ²	86
	<u>Prepare and prime surface with one coat Dulux Primer for Wood (Code: D33) and finish with three coats Dulux Trade 100 Lowsheen (Code: T2001)</u>		
14	On flush doors	m ²	49
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	<u>Prepare, fill, sand down, clean to leave a dust free surface and apply two coats "Woodgard" Interior Double Life Timbavarnish (Eggshell) polyurethane varnish (colour to be selected) to:</u>		
15	General surfaces of woodwork at eaves	m ²	82
16	General surfaces of woodwork	m ²	146
17	Skirtings not exceeding 300mm girth	m	522
<u>PAINT WORK ETC. TO EXISTING WORK</u>			
<u>ON PLASTER, ETC.</u>			
<u>Paintwork to existing plastered and painted walls shall include surface preparation and the filling and making good of small cracks up to 3mm wide.</u>			
	<u>Clean down all dirt, remove all loose and flaking paint, apply one coat "Dulux" Trade plaster primer (Code: T1001) and three coats "Dulux" Trade 100 Matt (Code: T2001) acrylic:</u>		
18	Existing plastered and painted internal walls	m ²	495
	<u>Prepare, remove all loose and flaking paint and apply one coat "Dulux" Trade Plaster Primer for new Plaster (Code: T1001) , and three coats "Dulux" Weathershield (Code: T4007) acrylic:</u>		
19	Existing plastered and painted external walls	m ²	1 115
	<u>Prepare by removing all loose and flaking paint and apply one coat "Dulux" primer for new plaster (Code: D36) , one coat "Dulux" Trade filler coat (Code: T1007) and three coats "Dulux" Trade 100 Matt (Code: T2005) acrylic:</u>		
20	Existing painted gypsum board ceilings	m ²	20
21	Existing plastered and painted soffits	m ²	12
	<u>Remove all loose and flaking paint prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Rainshield (Code: D59) acrylic:</u>		
22	Precast concrete window sills not exceeding 300mm girth	m	20
	<u>Scrub down, remove all dirt and stains and apply two coats Brick seal to:</u>		
23	Existing face brick walls	m ²	38

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ON METAL, ETC.

Prepare, remove all loose and flaking paint, sand down to matt surface and paint one coat "Dulux" Corrocote 1 (Code: T1020) and one coat "Dulux" universal undercoat (Code: T1001) and two coats "Dulux" Trade Gloss enamel (Code: T3001):

24	IBR roof sheeting and accessories (measured flat over surface)	m ²	81
25	Steel door frames	m ²	4
26	Glazed steel windows with burglar bars	m ²	60
27	General surfaces of steelwork	m ²	44
28	Existing painted safe door and frame	m ²	6

ON WOOD

Sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Dulux Primer for Wood (Code: D33), undercoat with one coat Dulux Universal Undercoat (Code: D34), and finish with two coats Dulux Trade Gloss Enamel (Code: T3001)

29	On framed panel doors	m ²	7
30	On flush doors	m ²	8
31	General surface of woodwork	m ²	10
32	On skirtings not exceeding 300mm girth	m	55

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Bill No. 17

Paintwork

SEPTEMBER 2022

<u>Bill No</u>	<u>SECTION SUMMARY - EXISTING BUILDINGS</u>	<u>Page No</u>	<u>Amount</u>
1	Alterations	21	
2	Foundations	30	
3	Concrete, Formwork and Reinforcement	35	
4	Precast Concrete	38	
5	Masonry	43	
6	Waterproofing	44	
7	Roof Coverings, etc	47	
8	Carpentry and Joinery	55	
9	Ceilings, Partitions and Access flooring	58	
10	Floor Coverings	59	
11	Ironmongery	63	
12	Metalwork	68	
13	Plastering	71	
14	Tiling	74	
15	Plumbing and Drainage (Provisional)	86	
16	Glazing	89	
17	Paintwork	94	
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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>			
<u>BILL NO. 1</u>			
<u>GENERAL SITE WORKS</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>Nature of ground</u>			
All excavations are measured as being predominantly of a composition that will allow "soft excavation" as specified, but including a percentage of "intermediate excavation" and "hard rock excavation"			
<u>Filling supplied by the contractor</u>			
The Contractor must ensure that the material from the quarry that he is basing his rate on conforms to the required minimum specification. Rates for items that include clearing and filling must include for multiple handling and transport thereof on site			
<u>Excavation depths</u>			
Unless otherwise described, all excavation depths shall be taken from the average reduced, natural or filled ground level			
<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 on the building site			
<u>Risk of collapse</u>			
Tenderers shall allow in his rates for risk of collapse of vertical face of excavations in open face not measured in this section			
<u>DEMOLITIONS ETC</u>			
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**Demolishing and removing of existing toilet buildings
de-sludging, disinfecting, grubbing up tanks underneath
with clean soil and compact**

1	Single storey building with double pitched roof approximately 3,20 x 2,10m overall - 7m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. fill in and ram	No	1
2	Ditto, approximately 3,80 x 5,40m overall - 21m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. fill in and ram	No	1
3	Ditto, toilet block with double pitched roof approximately 6,36 x 5,30m overall - 34m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1
4	Ditto, toilet block with double pitched roof approximately 6,69 x 4,85m overall - 33m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1
5	Ditto, toilet block with double pitched roof approximately 3,33 x 10,39m overall - 35m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1
6	Ditto, toilet block with double pitched roof approximately 5,93 x 4,96m overall - 25m2 on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, asbestos sheet roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1

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SITE CLEARANCE

7	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc (LI)	m ²	1 752
8	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m ²	1 752
	<u>Open face excavation in earth over sloping site</u>		
9	Open face excavation in earth to reduce levels	m ³	290
10	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m ³	290
11	Extra over open face excavations in earth for excavations in soft rock	m ³	29
12	Extra over open face excavations in earth for excavations in hard rock	m ³	15
13	Allow for keeping excavations free of all water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 150m from perimeter of excavations or stock piles, compacted to 96% Mod AASHTO density</u>		
14	Over site to form platforms	m ³	125
15	Prepare ground surface by scarifying top 150mm layer of ground and re-compact to 93% modified AASHTO density	m ²	968
	<u>Imported filling</u>		
16	G5 Imported earth filling supplied by the Contractor and brought onto site to make up levels around buildings compacted to 95% modified AASHTO density	m ³	774
	<u>Tests</u>		
	<u>Additional tests required by the engineer</u>		
17	"Modified AASHTO Density" test	No	10

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18 "Field Density" test, including "Optimum Moisture Content"
(four readings per test)

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General Site Works

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General Site Works

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>			
<u>BILL NO. 2</u>			
<u>PAVING, WALKWAYS, RAMPS, APRONS, ETC.</u>			
<u>Preambles</u>			
For Preambles refer to Standard Preambles To All Trades WB20-1986 and Supplementary Preambles Sup 1 to Sup 5			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<u>Nature of ground</u>			
All excavations are measured as being predominantly of a composition that will allow "soft excavation" as specified, but including a percentage of "intermediate excavation" and "hard rock excavation"			
<u>Filling supplied by the contractor</u>			
The Contractor must ensure that the material from the quarry that he is basing his rate on conforms to the required minimum specification. Rates for items that include clearing and filling must include for multiple handling and transport thereof on site			
<u>Excavation depths</u>			
Unless otherwise described, all excavation depths shall be taken from the average reduced, natural or filled ground level			
<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			
<u>SITE CLEARANCE ETC</u>			
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<u>Site clearance</u>		
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc (LI)	m ² 1 696
2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m ² 1 332
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>		
<u>Excavation in earth not exceeding 2 m deep</u>		
3	Foundations	m ³ 38
4	To reduce levels to final levels under under walkways (LI)	m ³ 224
<u>Extra over trench and hole excavations in earth for excavation in</u>		
5	Soft rock (LI)	m ³ 137
6	Hard rock	m ³ 69
<u>Extra over all excavations for carting away</u>		
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m ³ 226
<u>Keeping excavations free of water</u>		
8	Keeping excavations free of water (LI)	Item
<u>FILLING, ETC. OTHER THAN BULK</u>		
<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>		
9	Under aprons, walkways, etc (LI)	m ³ 237
10	150mm Sub-base layer of imported G5 material and compacted to 98% modified AASHTO density	m ³ 200
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<u>Compaction of surfaces</u>		
11	Compaction of ground surface under floors, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 90 % Mod AASHTO density (LI)	m ² 1 441
<u>Prescribed density tests on filling</u>		
12	"Modified AASHTO Density" test	No 45
<u>SOIL POISONING</u>		
<u>"Clordane" or "Aldrin" type mixed with water to manufacturers specifications and applied at a rate of not less than 5 litres per square meter.</u>		
13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ² 1 441
<u>PAVING</u>		
<u>REINFORCED CONCRETE</u>		
<u>25 MPa/19 mm concrete</u>		
14	Foundations	m ³ 23
15	Aprons, etc.	m ³ 2
16	Steps	m ³ 0.4
17	Ramps	m ³ 8
<u>Finishing top surfaces of concrete smooth with a wood float</u>		
18	Surface beds, aprons, walkways, slabs, etc to falls	m ² 24
19	Ditto, non-slip to sloping ramps	m ² 85
<u>PAVING</u>		
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PRECAST CONCRETE

Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series

Paving shall be laid in accordance with SANS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications

Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand shall be swept into joints between road stones at completion

Precast concrete (25Mpa) block walkway surfacing

20	60mm Paving blocks laid to falls on sand layer (elsewhere) with joints filled in with sand including all straight cutting	m ²	1 332
21	Header course edging to paving with 150 x 200mm mass concrete (20 Mpa) base underneath, including excavation, etc.	m	1 066

FORMWORK CLASS F2 (SMOOTH FINISH)

Formwork to sides

22	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	5
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Expansion joints of "Sondor Jointex" closed cell expanded polyethylene between vertical concrete and brick surfaces

23	10mm Joints not exceeding 300mm high with 10mm high tear off strip at top (Provisional)	m	153
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REINFORCEMENT

Welded steel fabric reinforcement including laps (measured net)

24	Type 193 reinforcement in concrete surface beds, slabs, etc	m ²	109
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BRICKWORK

25	One brick wall	m ²	89
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26	150mm Wide reinforcement built in horizontally	m	853
	<u>FACED BRICKWORK</u>		
	<u>Note:</u> All fair cutting to be done by means of an approved high speed masonry cutting saw.		
	Raked and pointed joints must not exceed a depth of 6mm		

	<u>External facings (PC Amount R 10,000.00/ thousand NET delivered on site) build in stretcher bond and pointed with square recessed horizontal and vertical joints</u>		
27	Extra over ordinary brickwork for facing and pointing in stretcher bond	m ²	122
28	Fair raking cutting	m	99
	<u>Brick-on-edge header course copings, sills, etc of "Corobrick Firelight Satin (FBS)" face bricks pointed with square recessed joints on all exposed faces</u>		
29	220mm Wide brick on edge roller course lintel course pointed on top and one side	m	153
	<u>WATERPROOFING</u>		
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>		
30	250 Micron green medium density damp-proof membrane laid loose on top of prepared earth under mass concrete or precast concrete paving	m ²	1 441

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Bill No. 2

Paving, Walkways, Ramps, etc.

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Item No		Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BILL NO. 3</u>				
<u>FENCING</u>				
<u>Preambles</u>				
For Preambles refer to Standard Preambles To All Trades WB20-1986 and Supplementary Preambles Sup 1 to Sup 5				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works				
<u>DEMOLITIONS</u>				
1	Take down and remove existing 1.80m high welded mesh steel security fence including all intermediate-, corner- and end posts with concrete footings, backfill and compact	m	376	
<u>SITE PREPARATION</u>				
<u>Clear site</u>				
2	Clear area of 2m wide for fence, including digging up and removing rubbish, debris, vegetation, hedges, boulders, shrubs and trees with trunk not exceeding 200mm girth	m	376	
<u>Welded mesh fencing</u>				
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Fencing				
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	<p><u>"Clearvue" UV stabilized polymer finish welded mesh fence complete with 85mm tapering to 45mm posts with a depth of 85mm at approximately 3,0m centres complete with locking recess mechanism and finished on top with a cap bedded in 600 x 400mm² concrete (15 MPa) bases, panels approximately 3,0m wide welded mesh with an aperture size 76 12mm including 4 x 50 mm deep V formation horizontal recessed bands (rigidity) and 2 x 30 degree flanges along top and toe affixed to post over 48 line wires with 8 double boltcomb clamps and 8 x single bolt comb clamps using 24 x anti vandal bolts and topped with 100mm high toughened castle type spike rails, 200mm concrete sill underneath, etc. supplied and erected complete</u></p>			
3	<p>Fence 2,4m high complete</p> <p><u>Welded mesh fencing</u></p> <p><u>"Clearvue" UV stabilized polymer finish welded mesh fence complete with 85mm tapering to 45mm posts with a depth of 85mm at approximately 3,0m centres complete with locking recess mechanism and finished on top with a cap bedded in 600 x 400mm² concrete (15 MPa) bases, panels approximately 3,0m wide welded mesh with an aperture size 76 12mm including 4 x 50 mm deep V formation horizontal recessed bands (rigidity) and 2 x 30 degree flanges along top and toe affixed to post over 48 line wires with 8 double boltcomb clamps and 8 x single bolt comb clamps using 24 x anti vandal bolts and topped with 100mm high toughened castle type spike rails, 200mm concrete sill underneath, etc. supplied and erected complete</u></p> <p><u>The following in matching steel gates</u></p>	m	1206	
4	<p>Extra over for forming single gate 1,1m wide x 2,4m high complete with 100 x 50 x 2mm surround frame including all hinges, drop bolts end locking pins, paint, etc. complete</p>	No	2	
5	<p>Ditto, for sliding gate for 4,8m wide opening x 2,4m high including sliding rail bedded in 300 x 300mm concrete, rollers, wheels, locking pins, paint, etc., complete</p>	No	2	
Carried to Collection				
<p>Section No. 3</p> <p>Bill No. 3</p> <p>Fencing</p> <p>SEPTEMBER 2022</p>				

Section No. 3

Bill No. 3

Fencing

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Section No. 3

Bill No. 3

Fencing

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<u>Bill No</u>	<u>SECTION SUMMARY - EXTERNAL WORKS</u>	<u>Page No</u>	<u>Amount</u>
1	General Site Works	100	
2	Paving, Walkways, Ramps, etc.	106	
3	Fencing	109	
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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION No. 4</u>			
<u>BILL No. 1</u>			
<u>PROVISIONAL SUMS</u>			
NOTE:			
Tenderer s are advised to study the Model Preambles for Trades 2008 before pricing this bill			
All provisional sums are nett			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
<u>Profit</u>			
Where stated, the contractor may allow for profit if required			
<u>General attendance on nominated/selected subcontractors</u>			
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
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1	The services as set out in clause B9.1 of the Preliminaries		
2	Making good in all trades and cleaning down and removal of rubbish on completion		
<u>Special attendance on nominated/selected subcontractors</u>			
Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2			
<u>Builder's work</u>			
Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
<u>COMMUNITY LIASON OFFICER</u>			
1	Allow the sum of R 100,000-00 (One hundred thousand rand) for the appointment of a community liason officer for the full duration of the project to be expended inwhole or part as per the discretion of the Principal Agent	Item	100 000.00
<u>BUDGETARY ALLOWANCES</u>			
2	Provide the sum of R 50,000.00 (Fifty thousand rand) for the assessment and replacement of existing timber roof structures where required	Item	50 000.00
3	Provide the sum of R 50,000.00 (fifty thousand rand) for signage installation for all ablution blocks	Item	50 000.00
4	Provide the sum of R 100,000.00 (One hundred thousand rand) for alarm system installation	Item	100 000.00
<u>PROVISIONAL SUMS</u>			
<u>ELECTRICAL INSTALLATION</u>			
5	Provide the sum of R 2 400,000.00 (Two Million Four Hundred Thousand Rand) for the electrical installation to be executed by a firm of registered specialists	Item	2 400 000.00
6	Allow for profit	%	
7	Allow for attendance	%	
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<u>FIRE EQUIPMENT INSTALLATION</u>		
8	Provide the sum of R 100,000.00 (One Hundred thousand Rand) for the installation of fire fighting equipment by a firm of registered specialists	Item 100 000.00
9	Allow for profit	%
10	Allow for attendance	%
<u>SHELVING</u>		
11	Provide the sum of R 100,000.00 (One Hundred thousand Rand) for the installation of shelving by a firm of registered specialists	Item 100 000.00
12	Allow for profit	%
13	Allow for attendance	%
<u>APPOINTMENT OF AIA (ASBESTOS INSPECTION AUTHORITY)</u>		
14	Provide the sum of R 250,000.00 (Two Hunder and Fifty thousand Rand) for appointment of AIA	Item 250 000.00
15	Allow for profit	%
16	Allow for attendance	%
<u>WATER TOWER AND TANK</u>		
17	Provide the sum of R 100,000.00 (One hundred thousand Rand) for the ninstallation of a water tower to be executed by a firm of specialists	Item 100 000.00
18	Allow for profit	%
19	Allow for attendance	%
<u>TEMPORARY FACILITIES</u>		
20	Provide the sum of R 400,000.00 (Four Hundred Thousand Rand) for the provision of temporary ablution facilities during the construction phase of the project	Item 400 000.00
21	Allow for profit	%
22	Allow for attendance	%
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Provisional Sums		
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Item No			Quantity	Rate	Amount R
	CPG Bill of Quantities:				
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.				
	MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS				
	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R30 869,32	R30 869,32
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS				
	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R30 869,32	R30 869,32
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation	%			
				R	
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	SECTION NO.4 - PROVISIONAL SUMS				
	Bill No. 1				
	Provisional Sums				

Item No			Quantity	Rate	Amount R
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT				
	A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS	1	R308 693,15	R308 693,15
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	LABOUR INTENSIVE PARTICIPATION GOAL				
	Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by Employer taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R72 000,00	R72 000,00
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	Carried to Collection			R	
	SECTION NO.4 – ASBESTOS REPLACEMENT				
	Bill No. 1				
	Provisional Sums				

<p>MINIMUM 30% SUB-CONTRACTING</p> <p>Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in C3.1 Project Specifications . This is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's).The Employer will define the actual P&G items applicable to the SMME's after tender award</p> <p>Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.</p> <p>Allowance for attendance all inclusive of associated costs to the contractor for implementation.</p> <p>Carried Forward to Summary of Section No.</p> <p>SECTION NO.4 - PROVISIONAL SUMS</p> <p>Bill No. 1</p> <p>Provisional Sums</p>	<p>PS</p> <p>%</p> <p>%</p>	<p>1</p>	<p>R319 497,41</p>	<p>R319 497,41</p>
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Section No. 4

Bill No. 1

Provisional Sums

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Provisional Sums

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1	PRELIMINARIES	17		
2	EXISTING BUILDINGS	95		
3	EXTERNAL WORKS	110		
4	PROVISIONAL SUMS	117		
	SUB-TOTAL			
	<u>CONTINGENCIES</u>			
	Allow 5% (Five percent) for contingencies to be expended in whole or deducted in part as per the discretion of the Employer/Principal Agent			
	SUB TOTAL			
	VALUE ADDED TAX: 15%			
	CARRIED TO FORM OF OFFER AND ACCEPTANCE C1.1			
	SEPTEMBER 2022			