

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. 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 and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1</p> <p>PRELIMINARIES AND GENERAL</p> <p>Bill No. 1</p> <p>PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p> <p>Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project</p> <p>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 Model Preambles and in any supplementary preambles</p> <p><b><u>GENERAL</u></b></p> <p>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 "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value</p> <p><b><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>Definitions (A1)</u></b></p>			
1	<p>Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<b><u>Objective and Preparation (A2 to A14)</u></b>			
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:.....  The principal agent shall:  - monitor and control progress and scheduling  - monitor all contract conditions, and  - coordinate the efforts of the employer's agents, the contractor and subcontractors  The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
	The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process			
6	Site representative (clause 6)			
	F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....	Item		
8	Works risk (clause 8)			
	F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)			
	F:..... V:..... T:.....	Item		
10	Works insurances (clause 10)			
	F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)			
	F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

Brought Forward			R
12	Effecting insurance (clause 12)  F:..... V:..... T:.....	Item	
13	NO CLAUSE	N/A	
14	Security (clause 14)  F:..... V:..... T:.....	Item	
<b><u>Execution (A15-A23)</u></b>			
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)  F:..... V:..... T:.....	Item	
18	Setting out of the works (clause 18)  F:..... V:..... T:.....  The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item	
Carried Forward			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	Brought Forward		R	
19	<p>Assignment (clause 19)</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer</p>	Item		
20	<p>Nominated subcontractors (clause 20)</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item		
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A24-A30)</u></b></p>	Item		
24	<p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	Brought Forward		R	
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)  F:..... V:..... T:.....  The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30)  F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	<b>Brought Forward</b>		R	
	<b><u>Payment (A31 - A35)</u></b>			
31	Interim payment to the contractor (clause 31)  F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32)  F:..... V:..... T:.....  Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing	Item		
33	Recovery of expense and loss (clause 33)  F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)  F:..... V:..... T:.....  The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			



	<b>Brought Forward</b>		R	
	<p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>			
35	<p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Cancellation (A36-A39)</u></b></p>	Item		
36	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>F:..... V:..... T:.....</p>	Item		
37	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>F:..... V:..... T:.....</p>	Item		
38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>F:..... V:..... T:.....</p>	Item		
39	<p>Cancellation - cessation of the works (clause 39)</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<b><u>Dispute (A40)</u></b>			
40	Dispute Settlement (clause 40)  F:..... V:..... T:.....	Item		
	<b><u>Substitute Provisions (A41)</u></b>			
41	State clauses (Clause 41)  F:..... V:..... T:.....  Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item		
	<b><u>THE SCHEDULE</u></b>  Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42)  F:..... V:..... T:.....	Item		
	<b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b>			
	42.1.1 Employer: As per information on the tender data			
	42.1.2 Principal Agent: As per the information on the Tender data			
	42.1.3 Architect: Afro Architectural			
	<b>Carried Forward</b>		R	
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<p style="text-align: center;"><b>Brought Forward</b></p> <p>42.1.4 Quantity Surveyor:</p> <p>Structural :</p> <p>42.1.5 Civil:</p> <p>42.1.6 Electrical Engineer:</p> <p>42.1.6 Mechanical Engineer:</p> <p><b><u>42.2 CONTRACT DETAILS</u></b></p> <p>42.2.1 Works Description: Construction of sanitation facilities</p> <p>42.2.2 Site Description: as per the information on the tender data</p> <p>42.2.3 Work or installations by direct contractors: N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a <b>State</b> organ only Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given: UNKNOWN</p>			R
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			R

	<b>Brought Forward</b>		R	
42.2.6	Period for the commencement of the works after the contractor takes posse			
42.2.7	For the works <b>as a whole</b> . Intended date of practical completion and the penalty per calendar day  18 weeks after contractual commencement date <i>Date</i>  <i>Penalty Amount</i> <i>The penalty 7.5c per R100 of the final value per calender day ( inclusive of value added tax)</i>			
42.2.8	For the works in <b>sections</b> : Intended date of practical completion and the penalty per calendar day  <div style="text-align: right;"><b>Section 1</b> .N/A.....<i>Date</i>  R.N/A..... Penalty Amount</div>			
42.2.9	The <b>law</b> applicable to this <b>agreement</b> shall be that of  <div style="text-align: right;"><i>South Africa   (country)</i></div>			
<b>42.3</b>	<b><u>INSURANCES</u></b>			
42.3.1	Contract works insurance to be effected by:  <div style="text-align: right;"><i>Contractor:</i>  <i>For the Sum of R Contract Amount + 20.00 %</i>  <i>With a deductible of - to be determined by the contractor</i></div>			
42.3.2	Supplementary insurance is required  <div style="text-align: right;"><i>No</i></div>			
	<b>Carried Forward</b>		R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL				

	<b>Brought Forward</b>		R	
42.3.3	Public liability insurance to be effected by: <i>Contractor:</i>  <i>For the Sum of R 2 500 000-00</i>  <i>With a deductible of - to be determined by the contractor</i>			
<b>42.4</b>	<b><u>DOCUMENTS</u></b>			
42.4.1	Waivers of <b>contractors lien</b> or right of continuing possession is required  <div style="text-align: right;">Yes</div>			
42.4.2	Number of construction document copies to be supplied to the <b>contractor</b> free of charge:  <div style="text-align: right;">3 Number of</div>			
42.4.3	<b>Bills of Quantities/Lump sum document</b> schedule of rates drawn up in accordance with:  "Standard System of Measuring Builders' Work"			
42.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within <b>working days</b>  <i>The priced bills of quantities must be handed in with the tender</i>			
42.4.5	JBCC Engineering General Conditions are to be included in the <b>contract documents</b> :  <div style="text-align: right;">No</div>			
42.4.6	The contract value is to be adjusted using escalation adjustment indices  <div style="text-align: right;">Yes</div> Where <b>JBCC CPAP</b> is to be used <div style="text-align: right;"><i>Base Month</i> <b>July 2010</b></div>			
42.4.7	Details of changes made to the provision of JBCC standard documentation:			
	<b>Carried Forward</b>		R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL				

	<b>Brought Forward</b>		R	
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Definitions and interpretation (B1)</u></b>			
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
44	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A		
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		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

Brought Forward			R
50	<p>Defined works area (B3.1)</p> <p>F:..... V:..... T:.....</p> <p><b><u>The site (B3)</u></b></p>	Item	
51	<p>Geotechnical investigation (B3.2)</p> <p>F:..... V:..... T:.....</p>	Item	
52	<p>Inspection of the site (B3.3)</p> <p>F:..... V:..... T:.....</p> <p>Existing premises occupied (B3.4)</p> <p>F:..... V:..... T:.....</p> <p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:..... T:.....</p> <p>Previous work - defects (B3.6)</p> <p>F:..... V:..... T:.....</p>	Item	
53	<p>Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	Brought Forward		R	
54	Services - unknown (B3.8)  F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9)  F:..... V:..... T:.....	Item		
56	Articles of value (B3.10)  F:..... V:..... T:.....	Item		
	<b><u>Management of contract (B4)</u></b>			
57	Inspection of adjoining properties etc (B3.11)  F:..... V:..... T:.....	Item		
58	Management of the works (B4.1)  F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2)  F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3)  F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4)  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
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Brought Forward			R
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item	
<b><u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u></b>			
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item	
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item	
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item	
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item	
<b><u>Temporary works and plant (B6)</u></b>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item	
68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	Brought Forward		R	
69	Advertising (B6.3)  F:..... V:..... T:.....	Item		
70	Plant, equipment, sheds and offices (B6.4)  F:..... V:..... T:.....	Item		
71	Main notice board (B6.5)  F:..... V:..... T:.....	Item		
72	Subcontractors' notice board (B6.6)  F:..... V:..... T:.....	N/A		
	<b><u>Temporary services (B7)</u></b>			
73	Location (B7.1)  F:..... V:..... T:.....	Item		
74	Water (B7.2)  <b>Option [A] shall apply</b>  F:..... V:..... T:.....	Item		
75	Electricity (B7.3)  <b>Option [A] shall apply</b>  F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4)  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	<b>Brought Forward</b>		R	
77	<p>Ablution facilities (B7.5)</p> <p style="text-align: right;"><b>Option [A] shall apply</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Prime cost amounts (B8)</u></b></p>	Item		
78	<p>Responsibility for prime cost amounts (B8.1)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Attendance on N/S Subcontractors (B9)</u></b></p>	Item		
79	<p>General attendance (B9.1)</p> <p>F:..... V:..... T:.....</p>	Item		
80	<p>Special attendance (B9.2)</p> <p>F:..... V:..... T:.....</p>	Item		
81	<p>Commissioning - Fuel, water and power (B9.3)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Financial aspects (B10)</u></b></p> <p>Statutory taxes, duties and levies (B10.1)</p> <p>F:..... V:..... T:.....</p>	Item		
82	<p>Payment of preliminaries (B10.2)</p> <p style="text-align: right;"><b>Option [B] shall apply</b></p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
83	Adjustment of preliminaries (B10.3) <b>Option [A] shall apply</b>  F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4)  F:..... V:..... T:.....	Item		
	<b><u>General (B11)</u></b>			
85	Protection of works (B11.1)  F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)  F:..... V:..... T:.....	Item		
87	Security of the Works (B11.3)  F:..... V:..... T:.....	Item		
88	Notice before covering work (B11.4)  F:..... V:..... T:.....	Item		
89	Disturbance (B11.5)  F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6)  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	Brought Forward		R	
91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
	<b><u>Schedule of variables (B12)</u></b>			
97	Pre-tender information (B12.1)  F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: <div style="text-align: right;">No</div>			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete <div style="text-align: right;">No</div>			
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

	<b>Brought Forward</b>		R	
12.1.3	Interest of agents (B2.4)			
12.1.4	Defined works area (B3.1)			
12.1.5	Geotechnical investigation (B3.2)			
	N/A			
12.1.6	Existing premises occupied (B3.4)			
12.1.7	Previous work - dimensional accuracy (B3.4)			
12.1.8	Previous work - defects (B3.5)			
12.1.9	Services - known (B3.7)			
12.1.10	Protection of trees (B3.9)			
	All trees should be protected and only on instruction of the Principal Agent may any trees be removed			
12.1.12	Enclosure of the works (B6.2)			
12.1.11	Inspection of adjoining properties (B3.11)			
12.1.13	Offices (B6.4.3)			
	An office for the clerck of works should be provided			
12.1.14	Main notice board (B6.5)			
	YES			
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
12.1.15 Subcontractors notice board (B6.6) A notice board is required	No			
12.1.16 Water (B7.2) Alternative Selected: A				
12.1.17 Electricity (B7.3) Alternative selected: A				
12.1.18 Telecommunications (B7.4)				
12.1.19 Ablution facilities (B7.5) Alternative selected: A				
12.1.20 Protection of existing/sectionally occupied works (B11.2)				
12.1.21 Special attendance (B9.2)  Subcontractor (1) details:  N/A				
12.1.22 Protection of the works (B11.1)  N/A				
12.1.23 Disturbance (B11.5)  N/A				
12.1.24 Environmental Disturbance (B11.6)  N/A				
<b><u>Post tender information (B12.2)</u></b>				
12.2.1 Payment of preliminaries Alternative selected: B				
12.2.2 Adjustment of preliminaries Alternative selected: A				
12.2.3 Additional agreed preliminaries items N/A				
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		<b>R</b>	
	<p><b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b></p> <p>Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included</p>			
98	<p><b>Site instructions</b></p> <p>Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor</p> <p>F: ..... V:..... T:.....</p>	Item		
99	<p><b>Black economic empowerment and training</b></p> <p>F:..... V:..... T:.....</p>	Item		
100	<p><b>Proprietary branded products</b></p> <p>F:..... V:..... T:.....</p>	Item		
101	<p><b>Testing of flat roof waterproofing for watertightness</b></p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p>	Item		
	<b>Carried Forward</b>		<b>R</b>	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			



	<b>Brought Forward</b>		R	
102	<p>Contract instructions</p> <p>F:..... V:..... T:.....</p> <p>Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor</p>	Item		
103	<p>Labour record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p>	Item		
104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item		
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>			
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>	Item		
107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>			
108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item		
	<b>Carried to Final Summary</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately ?km to store and handed over to the employer</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2</p> <p>ALTERATIONS</p> <p>Bill No. 1</p> <p>ALTERATIONS AND DEMOLITIONS</p>			

	<b>Brought Forward</b>			R	
	<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p><b><u>DEMOLITIONS AND ALTERATIONS</u></b></p> <p><b><u>DEMOLITIONS OF EXISTING TOILET STRUCTURES</u></b></p>				
1	Demolish existing pit toilet structures including hacking up and removing foundations and surface beds ,doors ,windows and door frames ,ironmongery and plumbing fittings complete. All pits are to be filled with soil.	No	15		
2	Take out and remove fence	m	868		
	<b>Carried Forward</b>			R	
	<p>Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS</p>				

Brought Forward			R
<u>BUDGETARY ALLOWANCE FOR RENOVATIONS OF EXISTING ENVIRO-LOO TOILETS</u>			
3	Allow a budget of R80 000.00 ( Eight Thousand Rands and Zero Cents) for the renovations of existing Enviro-Loo toilet structures.	Item	80 000.00
Carried to Final Summary			R
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	67	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	67	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	8	
4	Pit	m3	23	
5	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	25	
	<b>Carried Forward</b>			
	Section No. 3 BUILDING WORKS - M4 Bill No. 1 EARTHWORKS		R	

Brought Forward			R
	<u>Risk of collapse of excavations</u>		
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	47
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	8
12	Backfilling to trenches, holes, etc.	m3	4
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	23
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	25
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	29
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	4
	<b><u>SOIL POISONING</u></b>		
Carried Forward			R
Section No. 3 BUILDING WORKS - M4 Bill No. 1 EARTHWORKS			



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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	5		
2	Ditto, but surface bed in pit m3	23		
3	Aprons cast in panels m3	3		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	33		
5	Thickening down apron on edge 110mm deep x 200mm wide m	11		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs m3	2		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls m2	23		
	<b>Carried Forward</b>		R	
	Section No. 3 BUILDING WORKS - M4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

Brought Forward			R
<b><u>TEST CUBES</u></b>			
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
9	Surface beds, slabs, etc.	m2	25
<b><u>FORMWORK</u></b>			
<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	33
<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	12
12	Leave or form 500mm diameter opening in top of floor slab	No	4
<b><u>REINFORCEMENT</u></b>			
<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	23
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS - M4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 BUILDING WORKS - M4 Bill No. 3 MASONRY</p>			

	Brought Forward			R	
	<b><u>SAMPLES</u></b>				
	Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6				
	<b><u>FOUNDATIONS</u></b>				
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>				
1	One brick walls	m2	9		
2	One brick walls in pit	m2	15		
3	4Half brick corbelling in pit	m	6		
	<b><u>FACE BRICKWORK</u></b>				
	<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
4	Extra over brickwork for face brickwork in foundation	m2	4		
	<b><u>SUPERSTRUCTURE</u></b>				
	<b><u>FACE BRICKWORK</u></b>				
	<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m2	21		
6	One brickwork for face brick walls pointed both sides	m2	57		
7	Extra over brickwork for face brickwork in beamfilling	m2	4		
8	Fair raking and cutting	m	11		
	<b>Carried Forward</b>			R	
	Section No. 3 BUILDING WORKS - M4 Bill No. 3 MASONRY				

	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	8		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	125		
13	150mm Wide reinforcement built in horizontally	m	362		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	7		
	<u>Galvanised wire ties etc</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	11		
	<u>Prestressed fabricated lintels</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9		
	<u>Ventillation bricks</u>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8		
	<b>Carried Forward to Summary of Section No. 3</b>			R	
	Section No. 3				
	BUILDING WORKS - M4				
	Bill No. 3				
	MASONRY				

Item No	Quantity	Rate	Amount
<b><u>BILL NO.4</u></b>			
<b><u>WATERPROOFING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	5	
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	25	
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames. m	12	
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS - M4 Bill No. 4 WATERPROOFING			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	29	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	29	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	9	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3			
	BUILDING WORKS - M4			
	Bill No. 5			
	ROOF COVERINGS			

R



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Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3			
BUILDING WORKS - M4			
Bill No. 6			
CARPENTRY AND JOINERY			

Item No			Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>				
	<u>Approved</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	<b><u>LOCKS</u></b>				
	<u>Approved</u>				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	4		
	<b><u>DOORSTOPS</u></b>				
	<u>Approved</u>				
4	38mm Diameter rubber door stop plugged	No	5		
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>				
	<u>"Union" or similar approved</u>				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1		
	<b><u>BATHROOM FITTINGS</u></b>				
	<b><u>"Kimberley-Clark" or Simlilar</u></b>				
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4		
	<b>Carried Forward to Summary of Section No. 3</b>			R	
	Section No. 3				
	BUILDING WORKS - M4				
	Bill No. 7				
	IRONMONGERY				

Item No		Quantity	Rate	Amount
	<b>BILL NO.8</b>			
	<b>METALWORK</b>			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b>PRESSED STEEL DOOR FRAMES</b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	4	
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	1	
	<b>STEEL WINDOWS, DOORS, ETC</b>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	7	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	4	
	<b>WELDED SCREENS, GATES, ETC</b>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
BUILDING WORKS - M4				
Bill No. 8				
METALWORK				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 9</u></b>			
	<b><u>PLASTERING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CEMENT SCREEDS TO CONCRETE</u></b>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	25	
	<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	30	
	<b><u>FLOOR AND WALLS SEALERS</u></b>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	25	
4	On internal textured plaster walls and floors in pit	m2	54	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3			
	BUILDING WORKS - M4			
	Bill No. 9			
	IN SITU FINISHES			
			R	

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	4	
2	Supply and Erect "Enviro-loo" "Industrial 1040 Model, 5-bowl Urinal Evaporative Tank system fixed complete as per manufacturers specification unit, comprising of urinal evaporative tank , urinal bowls including brackets , 3500mm long outlet vent pipe , ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc	No	1	
	<b><u>SOIL DRAINAGE</u></b>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
3	110mm Pipes laid in and including trenches not exceeding 1m deep	m	30	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
4	110mm Bend	No	4	
5	110mm Junction	No	2	
	<b>Carried Forward</b>			
	Section No. 3 BUILDING WORKS - M4 Bill No. 10 PLUMBING AND DRAINAGE		R	

	Brought Forward			R	
	<u>uPVC gulleys</u>				
6	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	3		
	<b><u>SANITARY FITTINGS</u></b>				
7	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	2		
	<b><u>TRAPS, ETC.</u></b>				
	<u>uPVC</u>				
8	32 x 50mm Deep seal "P" or "S" trap	No	2		
	<b><u>TAPS, VALVES, ETC.</u></b>				
	<b><u>"Cobra Watertech" or other equal approved</u></b>				
9	15mm gate valve plugged	No	4		
10	19mm chrome plated push button taps to wash troughs	No	4		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
11	15 mm Pipes	m	3		
12	15mm Pipes chased in walls	m	10		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
13	15mm Fittings	No	5		
	<u>Sundries</u>				
14	Testing water pipe system		Item		
	<b>Carried Forward to Summary of Section No. 3</b>			R	
	Section No. 3				
	BUILDING WORKS - M4				
	Bill No. 10				
	PLUMBING AND DRAINAGE				

[illegible]



# BILL NO. 12

## PAINTWORK

## SUPPLEMENTARY PREAMBLES

## ON FIBRE-CEMENT

Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint

1	On fascias and barge boards	m2	6
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## ON WOOD

Undercoat and minimum 2 coat gloss enamel

2	On doors (Internal)	m2	16
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3	On doors (External)	m2	4
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## ON METAL

Undercoat and minimum 2 coat gloss enamel

4	On door frames	m2	3
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5	On gates (Measured over the full flat area of both sides)	m2	3
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6	On gutters and down pipes	m	9
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Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel

7	On windows with burglar bars	m2	8
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**Carried Forward to Summary of Section No. 3**

Section No. 3  
BUILDING WORKS - M4  
Bill No. 12  
PAINTWORK

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	81	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	81	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	19	
4	Pit	m3	23	
5	For aprons thickening	m3	5	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	3	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	32	
	<b>Carried Forward</b>			
	Section No. 4 BUILDING WORKS - MD4 Bill No. 1 EARTHWORKS		R	

	<b>Brought Forward</b>			R	
	<u>Risk of collapse of excavations</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	83		
	<u>Keeping excavations free of water.</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
11	Under floors, steps, pavings, etc.	m3	9		
12	Backfilling to trenches, holes, etc.	m3	9		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	29		
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	18		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	46		
	<u>Prescribed density tests on filling</u>				
16	Modified AASHTO Density tests	No	5		
	<b><u>SOIL POISONING</u></b>				
	<b>Carried Forward</b>			R	
	Section No. 4 BUILDING WORKS - MD4 Bill No. 1 EARTHWORKS				

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	4		
2	Ditto, but surface bed in pit m3	2		
3	Aprons cast in panels m3	4		
4	Aprons cast in panels m3	1		
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	11		
6	Thickening down apron on edge 110mm deep x 200mm wide m	33		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
7	Surface beds m3	3		
8	Slabs m3	1		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Aprons and pavings to falls m2	38		
	<b>Carried Forward</b>		R	
	Section No. 4 BUILDING WORKS - MD4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R	
	<b><u>TEST CUBES</u></b>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	24		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
11	Surface beds, slabs, etc.	m2	38		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
12	Surface beds, slabs, etc.	m2	46		
	<b><u>FORMWORK</u></b>				
	<u>Rough formwork to sides:</u>				
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	41		
	<u>Permanent formwork to soffits:</u>				
14	Slabs propped up not exceeding 1.5m high	m2	12		
15	Leave or form 500mm diameter opening in top of floor slab	No	5		
	<b><u>REINFORCEMENT</u></b>				
	<u>Mesh Reinforcement (measure nett)</u>				
16	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	28		
<b>Carried Forward to Summary of Section No. 4</b>				R	
Section No. 4					
BUILDING WORKS - MD4					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 BUILDING WORKS - MD4 Bill No. 3 MASONRY</p>			



Brought Forward			R
<b><u>SAMPLES</u></b>			
Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	21
2	One brick walls in pit	m2	36
3	Half brick corbelling in pit	m	14
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	5
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	28
6	One brickwork for face brick walls pointed both sides	m2	83
7	Extra over brickwork for face brickwork in beamfilling	m2	5
8	Fair raking and cutting	m	7
Carried Forward			R
Section No. 4 BUILDING WORKS - MD4 Bill No. 3 MASONRY			

	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	12		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	7		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	125		
13	150mm Wide reinforcement built in horizontally	m	362		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	12		
	<u>Galvanised wire ties etc</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	20		
	<u>Prestressed fabricated lintels</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	13		
	<u>Ventillation bricks</u>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	12		
	<b>Carried Forward to Summary of Section No. 4</b>			R	
	Section No. 4				
	BUILDING WORKS - MD4				
	Bill No. 3				
	MASONRY				

Item No	Quantity	Rate	Amount
<b><u>BILL NO.4</u></b>			
<b><u>WATERPROOFING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	12	
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	40	
3	Aprons and ramps m2	46	
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames. m	12	
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4 BUILDING WORKS - MD4 Bill No. 4 WATERPROOFING			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	42	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	42	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	9	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	4	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	<b>Carried Forward to Summary of Section No. 4</b>			
	Section No. 4			
	BUILDING WORKS - MD4			
	Bill No. 5			
	ROOF COVERINGS			

Item No		Quantity	Rate	Amount
	<b>BILL NO.6</b>			
	<b>CARPENTRY AND JOINERY</b>			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b>ROOFS, ETC.</b>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	46	
2	76 x 38mm Wall plates	m	19	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	46	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m <sup>2</sup>	33	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	20	
6	Hurricane clips	No	50	
	<b>EAVES, VERGES, ETC.</b>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	28	
	<b>DOORS, ETC.</b>			
	<b>Carried Forward</b>		R	
	Section No. 4 BUILDING WORKS - MD4 Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward				R
<u>Wrought meranti doors hung to steel frames</u>				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	4	
10	44mm Framed ledged and braced batten door 914 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm weather bar (D3)	No	1	
<b>Carried Forward to Summary of Section No. 4</b>				
Section No. 4				
BUILDING WORKS - MD4				
Bill No. 6				
CARPENTRY AND JOINERY				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	4	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	6	
	<b><u>DOOR CLOSERS</u></b>			
	<u>"Dorma" or equal approved</u>			
5	Code 737 3-5 Door closer	No	1	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2	
	<b>Carried Forward</b>			
	Section No. 4 BUILDING WORKS - MD4 Bill No. 7 IRONMONGERY		R	

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 4		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 1		
3	Frame for door 914 x 2032mm high	No 1		
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No 8		
5	Window type NE 7,1022 x 654mm high including burglar bars	No 5		
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 1		
7	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No 1		
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	Section No. 4			
	BUILDING WORKS - MD4			
	Bill No. 8			
	METALWORK			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	4	
2	Supply and Erect disabled "Enviro-loo" Industrial 1040 Model set up and fixed complete as per manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, paraplegic toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	1	
3	Supply and Erect "Enviro-loo" Industrial 1040 Model, 5-bowl Urinal Evaporative Tank system fixed complete as per manufacturers specification unit, comprising of urinal evaporative tank , urinal bowls including brackets , 3500mm long outlet vent pipe , ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc	No	1	
	<b>Carried Forward</b>		R	
	Section No. 4 BUILDING WORKS - MD4 Bill No. 10 PLUMBING AND DRAINAGE			

	Brought Forward			R	
	<b><u>SOIL DRAINAGE</u></b>				
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>				
4	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	30		
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>				
5	110mm Bend	No	3		
6	110mm Junction	No	2		
	<u>uPVC gulleys</u>				
7	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	3		
	<b><u>SANITARY FITTINGS (PROVISIONAL)</u></b>				
8	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	3		
9	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1		
	<b><u>WASTE UNIONS, ETC</u></b>				
10	32mm "301CP" Basin waste union	No	1		
	<b><u>TRAPS, ETC</u></b>				
	<b><u>"Marley"</u></b>				
11	32 x 50mm Deep seal "P" or "S" trap	No	1		
	<b><u>FITTINGS</u></b>				
12	15mm gate valve plugged	No	7		
13	19mm chrome plated push button taps to wash troughs	No	6		
	<b>Carried Forward</b>			R	
	Section No. 4 BUILDING WORKS - MD4 Bill No. 10 PLUMBING AND DRAINAGE				

	Brought Forward			R	
14	15mm Elbow action pillar tap plugged	No	1		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC pipes</u></b>				
15	50mm Pipes	m	20		
	<b><u>Extra over uPVC pipes for fittings</u></b>				
16	50mm Bend	No	2		
17	50 mm Junction	No	2		
18	50mm Access junction	No	2		
19	50mm Access bend	No	2		
20	50mm Access reducing junction	m	2		
21	50mm "GI Two-way" vent valve	No	2		
	<b><u>WATER SUPPLY</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
22	15 mm Pipes	m	6		
23	15mm Pipes chased in walls	m	5		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
24	15mm Fittings	No	5		
	<b><u>Copper overflow and service pipes</u></b>				
25	15mm Service pipe 350mm girth	No	1		
	<b><u>Sundries</u></b>				
26	Testing water pipe system		Item		
	<b>Carried Forward to Summary of Section No. 4</b>			R	
	Section No. 4				
	BUILDING WORKS - MD4				
	Bill No. 10				
	PLUMBING AND DRAINAGE				

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards m2	8		
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal) m2	13		
3	On doors (External) m2	7		
	<b><u>ON METAL</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames m2	3		
5	On gates (Measured over the full flat area of both sides) m2	8		
6	On gutters and down pipes m	15		
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars m2	4		
	<b>Carried Forward to Summary of Section No. 4</b>			
	Section No. 4			
	BUILDING WORKS - MD4			
	Bill No. 12			
	PAINTWORK			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	133	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	133	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	18	
4	Pit	m3	43	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	7	
7	Hard rock	m3	3	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	13	
	<b>Carried Forward</b>			
	Section No. 5 BUILDING WORKS - FD8 Bill No. 1 EARTHWORKS		R	

Brought Forward			R
	<u>Risk of collapse of excavations</u>		
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	64
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	7
12	Backfilling to trenches, holes, etc.	m3	51
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	49
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	29
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	35
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	5
	<b><u>SOIL POISONING</u></b>		
Carried Forward			R
Section No. 5 BUILDING WORKS - FD8 Bill No. 1 EARTHWORKS			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	7		
2	Ditto, but surface bed in pit m3	3		
3	Aprons cast in panels m3	4		
4	Ramp m3	1		
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	33		
6	Thickening down apron on edge 110mm deep x 200mm wide m	33		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs m3	4		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls m2	33		
	<b>Carried Forward</b>		R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R
	<b><u>TEST CUBES</u></b>			
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	43	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	5	
	<b><u>FORMWORK</u></b>			
	<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	36	
	<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	19	
13	Leave or form 500mm diameter opening in top of floor slab	No	7	
	<b><u>REINFORCEMENT</u></b>			
	<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	43	
<b>Carried Forward to Summary of Section No. 5</b>				R
Section No. 5				
BUILDING WORKS - FD8				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 5 BUILDING WORKS - FD8 Bill No. 3 MASONRY</p>			

Brought Forward			R
<b><u>SAMPLES</u></b>			
Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	21
2	One brick walls in pit	m2	23
3	Half brick corbelling in pit	m	34
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	5
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	29
6	One brickwork for face brick walls pointed both sides	m2	82
7	Extra over brickwork for face brickwork in beamfilling	m2	8
8	Fair raking and cutting	m	14
Carried Forward			R
Section No. 5 BUILDING WORKS - FD8 Bill No. 3 MASONRY			

	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	12		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	14		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	101		
13	150mm Wide reinforcement built in horizontally	m	343		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	8		
	<u>Galvanised wire ties etc</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	35		
	<u>Prestressed fabricated lintels</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	13		
	<b><u>Ventillation bricks</u></b>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	10		
	<b>Carried Forward to Summary of Section No. 5</b>			R	
	Section No. 5				
	BUILDING WORKS - FD8				
	Bill No. 3				
	MASONRY				



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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	48	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<u>Sundries</u>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	48	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	11	
4	Extra over for closed ends	No	3	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	8	
6	Extra over rainwater pipe for eaves offset	No	3	
7	Ditto ,for shoe	No	3	
	<b>Carried Forward to Summary of Section No. 5</b>			
	Section No. 5			
	BUILDING WORKS - FD8			
	Bill No. 5			
	ROOF COVERINGS			

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Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	8
10	44mm Framed ledged and braced batten door 914 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm weather bar (D3)	No	1
<b>Carried Forward to Summary of Section No. 5</b>			R
Section No. 5 BUILDING WORKS - FD8 Bill No. 6 CARPENTRY AND JOINERY			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	10	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	8	
	<b><u>HANDLES</u></b>			
	<u>Aluminium Pull handle</u>			
4	Set of two ,300mm pull handles fixed back to back on door	No	8	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	10	
	<b><u>DOOR CLOSERS</u></b>			
	<u>"Dorma" or equal approved</u>			
6	Code 737 3-5 Door closer	No	1	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 7 IRONMONGERY			

	<b>Brought Forward</b>			R	
	<u>"Union" or similar approved</u>				
7	75 x 150mm Natural anodised aluminium plate with female symbol	No	2		
	<u>"Vaal Paragon" or other approved</u>				
8	32mm Type 9 back stainless steel side grab rail 800mm long plugged	No	1		
9	32mm Type 8 back stainless steel side grab rail 900mm long plugged	No	1		
	<b><u>BATHROOM FITTINGS</u></b>				
	<b><u>"Kimberley-Clark"or Simlilar</u></b>				
10	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	9		
	<b><u>Stainless steel</u></b>				
11	Stainless steel mirror 350 x 400mm high	No	1		
	<u>Sundires</u>				
12	Stainless-steel SHE-BIN plugged to walls	No	9		
	<b>Carried Forward to Summary of Section No. 5</b>			R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 7 IRONMONGERY				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	8	
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	1	
3	Frame for door 914 x 2032mm high	No	1	
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
	<b><u>Standard industrial windows with type "B1" burglar bars to opening sashes</u></b>			
4	Window type NE1, 533 x 654mm high	No	9	
5	Window type NE 7,1022 x 654mm high	No	5	
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1	
7	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No	1	
	<b>Carried Forward to Summary of Section No. 5</b>		R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 8 METALWORK			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	8	
2	Supply and Erect disabled "Enviro-loo" Industrial 1040 Model set up and fixed complete as per manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, paraplegic toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	1	
	<b><u>SOIL DRAINAGE</u></b>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
3	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	30	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
4	110mm Bend	No	3	
	<b>Carried Forward</b>		R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 10 PLUMBING AND DRAINAGE			

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KGOLAKALELEME SECONDARY SCHOOL

	Brought Forward			R	
5	110mm Junction <u>uPVC gulleys</u>	No	2		
6	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	3		
	<b><u>SANITARY FITTINGS</u></b>				
7	Supply and install pre-cast concrete double wash-trough, complete with all necessary fittings and pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	3		
8	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1		
	<b><u>WASTE UNIONS, ETC</u></b>				
9	32mm "301CP" Basin waste union	No	1		
	<b><u>TRAPS, ETC</u></b>				
	<b><u>"Marley"</u></b>				
10	32 x 50mm Deep seal "P" or "S" trap	No	6		
	<b><u>TAPS, VALVES, ETC.</u></b>				
	<b><u>"Cobra Watertech" or other equal approved</u></b>				
11	15mm gate valve plugged	No	7		
12	15mm Elbow action pillar tap	No	1		
13	19mm Chrome plated push button taps to wash troughs	No	6		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC pipes</u></b>				
14	50mm Pipes	m	30		
	<b>Carried Forward</b>			R	
	Section No. 5 BUILDING WORKS - FD8 Bill No. 10 PLUMBING AND DRAINAGE				

	Brought Forward			R	
	<b><u>Extra over uPVC pipes for fittings</u></b>				
15	50mm Bend	No	2		
16	50 mm Junction	No	2		
17	50mm Access junction	No	2		
18	50mm Access bend	No	2		
19	50mm Access reducing junction	m	2		
20	50mm "GI Two-way" vent valve	No	2		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
21	15 mm Pipes	m	3		
22	15mm Pipes chased in walls	m	10		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
23	15mm Fittings	No	5		
	<b><u>Copper overflow and service pipes</u></b>				
24	15mm Service pipe 350mm girth	No	1		
	<b><u>Sundries</u></b>				
25	Testing water pipe system		Item		
	<b>Carried Forward to Summary of Section No. 5</b>			R	
	Section No. 5				
	BUILDING WORKS - FD8				
	Bill No. 10				
	PLUMBING AND DRAINAGE				

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	6	
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	18	
3	On doors (External)	m2	14	
	<b><u>ON METAL</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	17	
5	On gates (Measured over the full flat area of both sides)	m2	14	
6	On Gutters and downpipes	m	20	
	<u>Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	8	
	<b>Carried Forward to Summary of Section No. 5</b>		R	
	Section No. 5			
	BUILDING WORKS - FD8			
	Bill No. 12			
	PAINTWORK			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	162	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	162	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	21	
4	Pit	m3	37	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	5	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	38	
	<b>Carried Forward</b>			
	Section No. 6 BUILDING WORKS - F10 Bill No. 1 EARTHWORKS		R	

	<b>Brought Forward</b>			R
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	87	
	<u>Keeping excavations free of water.</u>			
10	Keeping excavations free of water other than subterranean water		Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
11	Under floors, steps, pavings, etc.	m3	11	
12	Backfilling to trenches, holes, etc.	m3	8	
	<u>Compaction of surfaces</u>			
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	41	
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	24	
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	36	
	<u>Prescribed density tests on filling</u>			
16	Modified AASHTO Density tests	No	5	
	<b><u>SOIL POISONING</u></b>			
	<b>Carried Forward</b>			R
	Section No. 6 BUILDING WORKS - F10 Bill No. 1 EARTHWORKS			



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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	7		
2	Ditto, but surface bed in pit m3	2		
3	2Aprons cast in panels m3	3		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	22		
5	Thickening down apron on edge 110mm deep x 200mm wide m	36		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs m3	5		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls m2	28		
	<b>Carried Forward</b>		R	
	Section No. 6 BUILDING WORKS - F10 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R	
	<b><u>TEST CUBES</u></b>				
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
9	Surface beds, slabs, etc.	m2	53		
	<b><u>FORMWORK</u></b>				
	<u>Rough formwork to sides:</u>				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25		
	<u>Permanent formwork to soffits:</u>				
11	Slabs propped up not exceeding 1.5m high	m2	20		
12	Leave or form 500mm diameter opening in top of floor slab	No	10		
	<b><u>REINFORCEMENT</u></b>				
	<u>Mesh Reinforcement (measure nett)</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	53		
<b>Carried Forward to Summary of Section No. 6</b>					
Section No. 6					
BUILDING WORKS - F10					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 6 BUILDING WORKS - F10 Bill No. 3 MASONRY</p>			

Brought Forward			R
<b><u>SAMPLES</u></b>			
Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	11
2	One brick walls in pit	m2	22
3	4Half brick corbelling in pit	m	21
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	12
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	40
6	One brickwork for face brick walls pointed both sides	m2	124
7	Extra over for brickwork in beamfilling	m2	5
8	Fair raking and cutting	m	8
Carried Forward			R
Section No. 6 BUILDING WORKS - F10 Bill No. 3 MASONRY			

	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	14		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	14		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	14		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	158		
13	150mm Wide reinforcement built in horizontally	m	285		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	11		
	<u>Galvanised wire ties etc</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	28		
	<u>Prestressed fabricated lintels</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	15		
	<b><u>Ventillation bricks</u></b>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6		
	<b>Carried Forward to Summary of Section No. 6</b>			R	
	Section No. 6				
	BUILDING WORKS - F10				
	Bill No. 3				
	MASONRY				

Item No	Quantity	Rate	Amount
<b><u>BILL NO.4</u></b>			
<b><u>WATERPROOFING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	6
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	53
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<b><u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u></b>			
3	Around steel windows and door frames.	m	41
Carried Forward to Summary of Section No. 6			R
Section No. 6			
BUILDING WORKS - F10			
Bill No. 4			
WATERPROOFING			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	60	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	60	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	10	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	<b>Carried Forward to Summary of Section No. 6</b>			
	Section No. 6			
	BUILDING WORKS - F10			
	Bill No. 5			
	ROOF COVERINGS			



Item No		Quantity	Rate	Amount
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ROOFS, ETC.</u></b>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	67	
2	76 x 38mm Wall plates	m	20	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	54	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	17	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28	
6	Hurricane clips	No	15	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	30	
	<b><u>DOORS, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 6 BUILDING WORKS - F10 Bill No. 6 CARPENTRY AND JOINERY			

	Brought Forward		R	
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	2	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	10	
<b>Carried Forward to Summary of Section No. 6</b>				
Section No. 6 BUILDING WORKS - F10 Bill No. 6 CARPENTRY AND JOINERY				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	10	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	2	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<u>"Union" or similar approved</u>			
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2	
	<b><u>BATHROOM FITTINGS</u></b>			
	<b><u>"Kimberley-Clark" or Simlilar</u></b>			
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	10	
	<b>Carried Forward</b>			
	Section No. 6 BUILDING WORKS - F10 Bill No. 7 IRONMONGERY		R	



Item No		Quantity	Rate	Amount
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	10	
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	2	
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	10	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	4	
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	<b>Carried Forward to Summary of Section No. 6</b>		R	
	Section No. 6 BUILDING WORKS - F10 Bill No. 8 METALWORK			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	10	
	<b><u>SOIL DRAINAGE</u></b>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
2	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	30	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
3	110mm Bend	No	3	
4	110mm Junction	No	2	
	<u>uPVC gulleys</u>			
5	110mm Dished gully trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	3	
	<b>Carried Forward</b>			
	Section No. 6 BUILDING WORKS - F10 Bill No. 10 PLUMBING AND DRAINAGE		R	

	<b>Brought Forward</b>		R	
	<b><u>SANITARY FITTINGS</u></b>			
6	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	3	
	<b><u>TRAPS, ETC</u></b>			
	<b><u>"Marley"</u></b>			
7	32 x 50mm Deep seal "P" or "S" trap	No	6	
	<b><u>TAPS, VALVES, ETC.</u></b>			
	<b><u>"Cobra Watertech" or other equal approved</u></b>			
8	15mm gate valve plugged	No	6	
9	19mm Chrome plated push button taps to WHB	No	6	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes</u></b>			
10	50mm Pipes	m	30	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
11	50mm Bend	No	2	
12	50 mm Junction	No	2	
13	50mm Access junction	No	2	
14	50mm Access bend	No	2	
15	50mm Access reducing junction	m	2	
16	50mm "GI Two-way" vent valve	No	2	
	<b><u>WATER SUPPLIES</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 6 BUILDING WORKS - F10 Bill No. 10 PLUMBING AND DRAINAGE			



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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 13</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	30	
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	4	
3	On doors (External)	m2	32	
	<b><u>ON METAL</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	13	
5	On gates (Measured over the full flat area of both sides)	m2	14	
6	On gutters and down pipes	m	25	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	14	
	<b>Carried Forward to Summary of Section No. 6</b>			
	Section No. 6			
	BUILDING WORKS - F10			
	Bill No. 12			
	PAINTWORK			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	51	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	51	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	13	
4	Pit	m3	23	
5	For aprons thickening	m3	3	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	1	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	6	
	<b>Carried Forward</b>		R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 1 EARTHWORKS			

	Brought Forward			R	
	<u>Risk of collapse of excavations</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	39		
	<u>Keeping excavations free of water.</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
11	Under floors, steps, pavings, etc.	m3	4		
12	Backfilling to trenches, holes, etc.	m3	7		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	14		
14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	33		
	<u>Prescribed density tests on filling</u>				
15	Modified AASHTO Density tests	No	5		
	<b><u>SOIL POISONING</u></b>				
	<u>Soil insecticide</u>				
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	14		
17	To bottom of concrete aprons	m2	33		
18	To bottoms and sides of trenches, etc.	m2	52		
	<b>Carried Forward to Summary of Section No. 7</b>			R	
	Section No. 7				
	BUILDING WORKS - SD2				
	Bill No. 1				
	EARTHWORKS				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	3		
2	Ditto, but surface bed in pit m3	2		
3	2Aprons cast in panels m3	3		
4	Ramp m3	1		
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	4		
6	Thickening down apron on edge 110mm deep x 200mm wide m	25		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs m3	2		
8	Surface beds m3	1		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Aprons and pavings to falls m2	33		
	<b>Carried Forward</b>		R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R	
	<b><u>TEST CUBES</u></b>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	24		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
11	Surface beds, slabs, etc.	m2	14		
	<b><u>FORMWORK</u></b>				
	<u>Rough formwork to sides:</u>				
12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30		
	<u>Permanent formwork to soffits:</u>				
13	Slabs propped up not exceeding 1.5m high	m2	10		
14	Leave or form 500mm diameter opening in top of floor slab	No	3		
	<b><u>REINFORCEMENT</u></b>				
	<u>Mesh Reinforcement (measure nett)</u>				
15	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	14		
<b>Carried Forward to Summary of Section No. 7</b>					
Section No. 7					
BUILDING WORKS - SD2					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					



Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 7 BUILDING WORKS - SD2 Bill No. 3 MASONRY</p>			

Brought Forward			R
<b><u>SAMPLES</u></b>			
Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	15
2	One brick walls in pit	m2	3
3	4Half brick corbelling in pit	m	18
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	3
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	18
6	One brickwork for face brick walls pointed both sides	m2	58
7	Extra over brickwork for face brickwork in beamfilling	m2	3
8	Fair raking and cutting	m	7
Carried Forward			R
Section No. 7 BUILDING WORKS - SD2 Bill No. 3 MASONRY			

	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	7		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2		
12	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	3		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
13	75mm Wide reinforcement built in horizontally	m	53		
14	150mm Wide reinforcement built in horizontally	m	223		
	<u>Turning pieces</u>				
15	220mm Wide turning piece to lintel etc	m	7		
	<u>Galvanised wire ties etc</u>				
16	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	12		
	<u>Prestressed fabricated lintels</u>				
17	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9		
	<u>Ventillation bricks</u>				
18	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8		
	<b>Carried Forward to Summary of Section No. 7</b>			R	
	Section No. 7				
	BUILDING WORKS - SD2				
	Bill No. 3				
	MASONRY				

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Item No	Quantity	Rate	Amount
<b><u>BILL NO.5</u></b>			
<b><u>ROOF COVERINGS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	23
	<u>Sundries</u>		
2	12" Thermal resistance sisalition laid on purlins	m2	23
<b><u>RAINWATER DISPOSAL</u></b>			
<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	5
4	Extra over for closed ends	No	2
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	3
6	Extra over rainwater pipe for eaves offset	No	1
7	Ditto ,for shoe	No	1
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7 BUILDING WORKS - SD2 Bill No. 5 ROOF COVERINGS			

[illegible]

Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	2
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	1
10	44mm Framed ledged and braced batten door 914 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm weather bar (D3)	No	1
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7 BUILDING WORKS - SD2 Bill No. 6 CARPENTRY AND JOINERY			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	2	
	<b><u>HANDLES</u></b>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	4	
	<b><u>DOOR CLOSERS</u></b>			
	<u>"Dorma" or equal approved</u>			
6	Code 737 3-5 Door closer	No	1	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 7 IRONMONGERY			



Brought Forward			R
	<u>"Union" or similar approved</u>		
7	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2
	<u>"Vaal Paragon" or similar approved</u>		
8	32mm Type 9 back grab rail 800mm long plugged	No	1
9	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>BATHROOM FITTINGS</u></b>			
	<u>"Kimberley-Clark" or Simlilar</u>		
10	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	3
	<b><u>Stainless steel</u></b>		
11	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2
Carried Forward to Summary of Section No. 7			R
Section No. 7			
BUILDING WORKS - SD2			
Bill No. 7			
IRONMONGERY			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	2	
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	2	
3	Frame for door 914 x 2032mm high	No	1	
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	6	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	3	
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
7	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No	1	
	<b>Carried Forward to Summary of Section No. 7</b>			
	Section No. 7			
	BUILDING WORKS - SD2			
	Bill No. 8			
	METALWORK			
			R	

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete,installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets,standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping,etc	No	2	
2	Supply and Install "Enviro-Loo" Industrial 1040 Model complete,installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets,standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping,etc	No	1	
	<b>Carried Forward</b>		R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 10 PLUMBING AND DRAINAGE			

	Brought Forward			R	
3	Supply and Erect "Enviro-loo" Industrial 1040 Model, 5-bowl Urinal Evaporative Tank system fixed complete as per manufacturers specification unit, comprising of urinal evaporative tank , urinal bowls including brackets , 3500mm long outlet vent pipe , ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc	No	1		
	<b><u>SOIL DRAINAGE</u></b>				
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>				
4	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	5		
5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>				
6	110mm Bend	No	4		
7	110mm Junction	No	2		
	<u>uPVC gulleys</u>				
8	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	2		
	<b><u>SANITARY FITTINGS</u></b>				
	<u>Vaal or equal approved</u>				
9	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1		
10	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	2		
	<b>Carried Forward</b>			R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 10 PLUMBING AND DRAINAGE				

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	Brought Forward			R	
11	Vaal Sanitaryware vitreous china "Afsan" low level 90B0 outlet washdown pan.Vaal Sanitaryware vitreous china "Hibiscus Elite Vandal Proof" low level cistern (code7116LV), complete with front push button, lid, fittings and low level flush pipe.	No			Rate Only
12	Vaal Sanitaryware vitreous china "Protea Paraplegic" 90B0 outletpan (code 750200) and matching 9 litre cistern (code 7116LP) complete with lid, fittings, and purpose-made C.P. side-flush lever (left or right) or a back inlet exposed flushvalve	No			Rate Only
13	Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inlet (code705426). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1). include a 38mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No			Rate Only
	<b><u>WASTE UNIONS, ETC</u></b>				
14	32mm "301CP" Basin waste union	No	1		
	<b><u>TRAPS, ETC.</u></b>				
	<b><u>"Marley"</u></b>				
15	32 x 50mm Deep seal "P" or "S" trap	No	2		
	<b><u>TAPS, VALVES, ETC.</u></b>				
	<b><u>"Cobra Watertech" or other equal approved</u></b>				
16	15mm gate valve plugged	No	5		
17	19mm Chrome plated push button taps to wash troughs	No	4		
18	15mm Elbow action pillar tap	No	1		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC pipes</u></b>				
19	50mm Pipes	m	30		
	<b>Carried Forward</b>			R	
	Section No. 7 BUILDING WORKS - SD2 Bill No. 10 PLUMBING AND DRAINAGE				

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	Brought Forward			R	
	<b><u>Extra over uPVC pipes for fittings</u></b>				
20	50mm Bend	No	2		
21	50 mm Junction	No	2		
22	50mm Access junction	No	2		
23	50mm Access bend	No	2		
24	50mm Access reducing junction	m	2		
25	50mm "GI Two-way" vent valve	No	2		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
26	15 mm Pipes	m	3		
27	15mm Pipes chased in walls	m	10		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
28	15mm Fittings	No	5		
	<b><u>Copper overflow and service pipes</u></b>				
29	15mm Service pipe 350mm girth	No	1		
	<b><u>Sundries</u></b>				
30	Testing water pipe system		Item		
	<b>Carried Forward to Summary of Section No. 7</b>			R	
	Section No. 7				
	BUILDING WORKS - SD2				
	Bill No. 10				
	PLUMBING AND DRAINAGE				

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards m2	6		
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal) m2	7		
3	On doors (External) m2	7		
	<b><u>ON METAL</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames m2	1		
5	On gates (Measured over the full flat area of both sides) m2	8		
6	On gutters and down pipes m	10		
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars m2	2		
	<b>Carried Forward to Summary of Section No. 7</b>			
	Section No. 7			
	BUILDING WORKS - SD2			
	Bill No. 12			
	PAINTWORK			

R

Bill No	Section No. 7 BUILDING WORKS - SD2 <b><u>SECTION SUMMARY - BUILDING WORKS - SD2</u></b>	Page No	Amount
1	EARTHWORKS	118	
2	CONCRETE, FORMWORK AND REINFORCEMENT	120	
3	MASONRY	123	
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6	CARPENTRY AND JOINERY	127	
7	IRONMONGERY	129	
8	METALWORK	130	
9	IN SITU FINISHES	131	
10	PLUMBING AND DRAINAGE	135	
11	GLAZING	136	
12	PAINTWORK	137	
<b>Carried to Final Summary</b>			R
Section No. 7 BUILDING WORKS - SD2			

Item No		Quantity	Rate	Amount
	<b><u>SECTION 8</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	66	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	66	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	16	
4	Pit	m3	23	
5	For aprons thickening	m3	4	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	31	
	<b>Carried Forward</b>			
	Section No. 8 BUILDING WORKS - SD4 Bill No. 1 EARTHWORKS		R	

Brought Forward			R
	<u>Risk of collapse of excavations</u>		
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	74
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and/or</u>		
	<u>prescribed stock piles on site compacted to 93% Mod</u>		
	<u>AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	6
12	Backfilling to trenches, holes, etc.	m3	9
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	21
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	18
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	41
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	5
	<b><u>SOIL POISONING</u></b>		
Carried Forward			R
Section No. 8 BUILDING WORKS - SD4 Bill No. 1 EARTHWORKS			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings m3	4		
2	Ditto, but surface bed in pit m3	2		
3	2Aprons cast in panels m3	4		
4	Ramp m3	1		
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc. m	9		
6	Thickening down apron on edge 110mm deep x 200mm wide m	32		
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
7	Surface beds m3	2		
8	Slabs m3	1		
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Aprons and pavings to falls m2	41		
	<b>Carried Forward</b>		R	
	Section No. 8 BUILDING WORKS - SD4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R	
	<b><u>TEST CUBES</u></b>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	24		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
11	Surface beds, slabs, etc.	m2	30		
	<b><u>FORMWORK</u></b>				
	<u>Rough formwork to sides:</u>				
12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	37		
	<u>Permanent formwork to soffits:</u>				
13	Slabs propped up not exceeding 1.5m high	m2	8		
14	Leave or form 500mm diameter opening in top of floor slab	No	5		
	<b><u>REINFORCEMENT</u></b>				
	<u>Mesh Reinforcement (measure nett)</u>				
15	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	21		
<b>Carried Forward to Summary of Section No. 8</b>					
Section No. 8					
BUILDING WORKS - SD4					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO.3</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><b><u>BRICKWORK</u></b></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 8 BUILDING WORKS - SD4 Bill No. 3 MASONRY</p>			



Brought Forward			R
<b><u>SAMPLES</u></b>			
Samples of all masonry building units, except those for walls 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 described as "load bearing", shall consist of a minimum of 6			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	18
2	One brick walls in pit	m2	36
3	4Half brick corbelling in pit	m	14
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	4
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	23
6	One brickwork for face brick walls pointed both sides	m2	70
7	Extra over brickwork for face brickwork in beamfilling	m2	4
8	Fair raking and cutting	m	7
Carried Forward			R
Section No. 8 BUILDING WORKS - SD4 Bill No. 3 MASONRY			

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	Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	10		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	5		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	1		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<u>Brick reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	68		
13	150mm Wide reinforcement built in horizontally	m	338		
	<u>Turning pieces</u>				
14	220mm Wide turning piece to lintel etc	m	10		
	<u>Galvanised wire ties etc</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	16		
	<u>Prestressed fabricated lintels</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	11		
	<u>Ventillation bricks</u>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	9		
	<b>Carried Forward to Summary of Section No. 8</b>			R	
	Section No. 8				
	BUILDING WORKS - SD4				
	Bill No. 3				
	MASONRY				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	12		
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	32		
3	Aprons and ramps m2	41		
	<b><u>FLOOR AND WALLS SEALERS</u></b>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames. m	10		
	<b>Carried Forward to Summary of Section No. 8</b>		R	
	Section No. 8			
	BUILDING WORKS - SD4			
	Bill No. 4			
	WATERPROOFING			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	32	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	32	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	7	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	3	
6	Extra over rainwater pipe for eaves offset	No	1	
7	Ditto ,for shoe	No	1	
	<b>Carried Forward to Summary of Section No. 8</b>			
	Section No. 8			
	BUILDING WORKS - SD4			
	Bill No. 5			
	ROOF COVERINGS			

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Item No		Quantity	Rate	Amount
	<b>BILL NO.6</b>			
	<b>CARPENTRY AND JOINERY</b>			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b>ROOFS, ETC.</b>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	35	
2	76 x 38mm Wall plates	m	13	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	35	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	25	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	16	
6	Hurricane clips	No	40	
	<b>EAVES, VERGES, ETC.</b>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23	
	<b>DOORS, ETC.</b>			
	<b>Carried Forward</b>		R	
	Section No. 8 BUILDING WORKS - SD4 Bill No. 6 CARPENTRY AND JOINERY			



Item No		Quantity	Rate	Amount
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	4	
	<b><u>HANDLES</u></b>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	6	
	<b><u>DOOR CLOSERS</u></b>			
	<u>"Dorma" or equal approved</u>			
6	Code 737 3-5 Door closer	No	1	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 8 BUILDING WORKS - SD4 Bill No. 7 IRONMONGERY			

	Brought Forward			R	
	<u>"Union" or similar approved</u>				
7	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	<u>"Vaal Paragon" or similar approved</u>				
8	32mm Type 9 back grab rail 800mm long plugged	No	1		
9	32mm Type 8 side grab rail 900mm girth plugged	No	1		
	<b><u>BATHROOM FITTINGS</u></b>				
	<b><u>"Kimberley-Clark" or Similar</u></b>				
10	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	<b><u>Stainless steel</u></b>				
11	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	1		
	<u>Sundries</u>				
12	Female SHE BIN plugged to walls	No	2		
	<b>Carried Forward to Summary of Section No. 8</b>			R	
	Section No. 8				
	BUILDING WORKS - SD4				
	Bill No. 7				
	IRONMONGERY				



Item No		Quantity	Rate	Amount
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 4		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 2		
3	Frame for door 914 x 2032mm high	No 1		
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No 5		
5	Window type NE 7,1022 x 654mm high including burglar bars	No 3		
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 1		
7	Purpose made square hallow section mild steel security gate, size 914 x 2032mm High	No 1		
	<b>Carried Forward to Summary of Section No. 8</b>		R	
	Section No. 8			
	BUILDING WORKS - SD4			
	Bill No. 8			
	METALWORK			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model complete, installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, standard toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	4	
2	Supply and Erect disabled "Enviro-loo" Industrial 1040 Model set up and fixed complete as per manufacturers instructions, unit comprising of top unit and two x louvred inlets , drying plate , two x air inlets, paraplegic toilet pan, seat and lid, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary inter connector piping between multiple tanks, emergency outlet piping, etc	No	1	
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	2	
	<b><u>SOIL DRAINAGE</u></b>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
4	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20	
	<b>Carried Forward</b>		R	
	Section No. 8 BUILDING WORKS - SD4 Bill No. 10 PLUMBING AND DRAINAGE			

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Brought Forward				R
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
5	110mm Bend	No	2	
6	110mm Junction	No	2	
	<u>uPVC gulleys</u>			
7	110mm Dished gully trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	2	
	<b><u>SANITARY FITTINGS</u></b>			
	<u>Vaal or equal approved</u>			
8	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1	
	<b><u>WASTE UNIONS, ETC</u></b>			
9	32mm "301CP" Basin waste union	No	1	
	<b><u>TRAPS, ETC.</u></b>			
	<b><u>"Marley"</u></b>			
10	32 x 50mm Deep seal "P" or "S" trap	No	4	
	<b><u>TAPS, VALVES, ETC.</u></b>			
	<b><u>"Cobra Watertech" or other equal approved</u></b>			
11	15mm gate valve plugged	No	6	
12	15mm Elbow action pillar tap	No	1	
13	19mm Chrome plated push button taps to WHB	No	4	
	<b><u>WATER SUPPLIES</u></b>			
	Carried Forward			R
	Section No. 8 BUILDING WORKS - SD4 Bill No. 10 PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	17	
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	13	
3	On doors (External)	m2	7	
	<b><u>ON METAL</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	1	
5	On gates (Measured over the full flat area of both sides)	m2	8	
6	On gutters and down pipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	3	
	<b>Carried Forward to Summary of Section No. 8</b>			
	Section No. 8			
	BUILDING WORKS - SD4			
	Bill No. 12			
	PAINTWORK			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 9</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>STORMWATER CONTROL</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	200	
	<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth</u>			
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, etc	m3	30	
	<u>Extra over bulk excavation in earth for excavation in</u>			
3	Soft rock	m3	3	
4	Hard rock	m3	2	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	30	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of all water other than subterranean water	Item		
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 1 STORMWATER CONTROL			

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
7	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	200		
	<u>Soil poisoning</u>				
8	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1 m2	m2	200		
	<b><u>Unreinforced Concrete</u></b>				
	<u>25Mpa/19mm concrete</u>				
9	25Mpa/19mm Mass concrete in V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2: 1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated sailboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	200		
10	Extra for fair open end	No	20		
11	Extra for fair stopped end	No	20		
12	Extra for angle intersection	No	25		
	<b>Carried Forward to Summary of Section No. 9</b>			R	
	Section No. 9				
	EXTERNAL WORKS				
	Bill No. 1				
	STORMWATER CONTROL				

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 9</u></b>			
	<b><u>BILL NO 2</u></b>			
	<b><u>PAVED WALKWAYS</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	220	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	220	
	<b><u>Earthworks</u></b>			
	<u>Open face excavation in earth over sloping site</u>			
3	Open face excavation to form platforms under parking areas, roads, etc and dispose in prescribed stock piles on site "Labour Intensive"	m3	220	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from stock piles on site to a dumping site to be located by the Contractor "Labour Intensive"	m3	15	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted as specified</u>			
5	Subbase course of G5 material in 150mm layer, compacted to 93% Mod AASHTO density "Labour Intensive"	m3	50	
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density "LI"	m2	220	
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY			

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	Brought Forward			R	
	Additional tests required by the engineer (Refer to Supplementary Preambles for contractor's tests: SABS 1200) "LI"				
7	"Modified AASHTO Density" test	No	5		
	<u>Paving of type 60mm interlocking precast concrete paving blocks with butt joints including 50mm thick river sand bed with sand swept into joints, including preparation of ground or filling "LI"</u>				
8	Paving to parking areas etc to falls, including necessary straight edge blocks "Labour Intensive"	m2	220		
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m<sup>2</sup> "LI"</u>				
9	Under paving etc "Labour Intensive"	m2	220		
	<b><u>Kerbs, etc "LI"</u></b>				
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
10	Fig 12 kerb with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc "Labour Intensive"	m	200		
<b>Carried Forward to Summary of Section No. 9</b>					
Section No. 9					
EXTERNAL WORKS					
Bill No. 2					
PAVED WALKWAY					

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 9</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>FENCING</u></b>			
	<b><u>FENCING</u></b>			
	<u>Steel Palisade Fencing</u>			
	<u>The following in steel palisade fencing</u>			
1	1800mm High palisade fencing comprising 40 x 40 x 2mm x 1750mm angle pales bolted at 175mm centres using M8 anti vandal nuts and round headed bolts onto 50 x 50 x 3mm angle iron crossbars bolted onto 76 x 76 x 2mm square tube posts 2400mm long by means of 40 x 5.00mm flatbar fishplate and M12 antivandal nuts and bolts and including planting posts into 600 x 600 x 600mm deep 25MPa concrete complete with all earthworks, trimmings and fixing.	m	868	
2	Sliding gate 5000mm x 1800mm High formed from 40 x 40 x 2mm welded angle iron paling; 76 x 38 x 2mm rectangular tubing frame; two 80mm roller coaster wheels fitted with ball bearing; track formed of 12mm steel rod welded to 40 x 40 x 5mm angle iron fixed into a 300 x 400 x 5000mm concrete base; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base (all concrete work to engineer's specification).	No	1	
3	Pedestrian gate 1500mm x 1800mm High formed from 40 x 40 x 2mm welded angle iron paling; 50 x 25 x 1.6mm rectangular tubing frame; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base (all concrete work to engineer's specification).	No	1	
	<b><u>PAINTWORK</u></b>			
	<u>On metal</u>			
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 3 FENCING			

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Item No		Quantity	Rate	Amount
	<b><u>WATER SUPPLIES</u></b>			
	<b><u>SECTION NO. 9</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<u>Class 10 HDPe type IV pipes</u>			
1	40mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive" m	10		
2	50mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive" m	273		
	<u>Extra over Class 10 HDPe type IV pipes for fittings</u>			
3	40mm Fittings No	20		
4	50mm Fittings No	25		
5	40mm Reducer No	6		
6	50mm Reducer No	6		
7	40mm Bend No	12		
8	50mm Bend No	12		
9	50mm Threaded adaptor No	5		
	<u>Galvanised medium steel pipes with screwed and socketed joints</u>			
10	50mm Pipes m	24		
	<u>Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings</u>			
11	50mm Fittings No	4		
12	50mm Bush No	4		
13	50mm Elbow No	4		
	<b>Carried Forward to Summary of Section No. 9</b>		R	
	Section No. 9			
	EXTERNAL WORKS			
	Bill No. 4			
	WATER SUPPLY			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 8</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>WATER FOUNTAINS</u></b>			
	<b><u>Earthworks</u></b>			
	<u>Excavation in compacted building platform not exceeding 2m deep</u>			
1	Trenches	m3	2	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor "Labour Intensive"	m3	2	
	<u>Compaction of surfaces</u>			
3	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	2	
	<b><u>FILLING</u></b>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
4	Backfilling to trenches, holes, etc	m3	1	
	<b><u>Concrete, etc</u></b>			
	<u>25Mpa/19mm reinforced concrete</u>			
5	Wall	m3	1	
6	Slabs	m3	1	
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 5 STAND PIPES			



Brought Forward			R
	<u>Rough formwork to sides</u>		
7	Edges, risers, ends and reveals not exceeding 300mm high or wide "Labour Intensive"	m	12
8	Formwork to sides	m2	4
	<u>Mesh Reinforcement (measure nett)</u>		
9	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	4
<b><u>WATER SUPPLIES</u></b>			
	<u>Class 0 copper pipes and fittings with capillary soldered type connections</u>		
10	15mm Pipes	m	16
	<u>Extra over class 0 pipes for capillary fittings</u>		
11	15mm fittings	No	8
	<u>Cobra Watertech or equal approved</u>		
12	19mm chrome plated push button taps	No	4
<b>Carried Forward to Summary of Section No. 9</b>			R
Section No. 9 EXTERNAL WORKS Bill No. 5 STAND PIPES			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 9</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>WATER TANKS</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	87	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	28	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	7	
4	Hard rock	m3	70	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	14	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	33	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item		
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 6 RAINWATER WATER TANKS			

	<b>Brought Forward</b>			R	
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	9		
	<b><u>SOIL POISONING</u></b>				
	<u>Soil poisoning mixed in accordance to supplier's specifications</u>				
9	To bottoms and sides of trenches, etc.	m2	19		
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<u>25MPa/19mm concrete</u>				
10	Strip footings				
		m3	9		
11	Platform surface beds cast in panels				
		m3	2		
	<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>				
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
12	Surface beds, slabs, etc (rainwater tanks)	m2	19		
	<b><u>REINFORCEMENT</u></b>				
	<u>Fabric reinforcement</u>				
13	Type 295 fabric reinforcement in concrete surface beds, slabs, etc	m2	29		
	<b>Carried Forward</b>			R	
	Section No. 9 EXTERNAL WORKS Bill No. 6 RAINWATER WATER TANKS				

	Brought Forward			R
	<b><u>TEST CUBES</u></b>			
14	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	3	
	<b><u>BRICKWORK</u></b>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
15	One brick walls	m2	23	
	<b><u>BRICKWORK SUNDRIES</u></b>			
	<u>Brickwork reinforcement</u>			
16	150mm Wide reinforcement built in horizontally	m	70	
	<b><u>FACE BRICKWORK</u></b>			
	<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
17	Extra over brickwork for face brickwork	m2	23	
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3 500,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>			
18	Coping on top of one brick wall	m	37	
	<b><u>WATERPROOFING</u></b>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
19	In walls	m2	8	
	<b>Carried Forward</b>			R
	Section No. 9 EXTERNAL WORKS Bill No. 6 RAINWATER WATER TANKS			

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	Brought Forward			R
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
20	Under surface beds	m2	19	
	<b><u>WATER SUPPLIES</u></b>			
	<u>Galvanized medium normalized mild steel piping</u>			
21	25mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	60	
22	50mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	60	
	<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
23	25mm Fittings.	No	30	
24	50mm Elbows.	No	30	
25	50mm Union.	No	30	
26	50mm Reducing bush.	No	30	
27	15mm "Cobra Ref. 108LK" brass hose biptap.	No	10	
	<u>"Jojo" approved SANS PVC water tanks</u>			
28	5 000 Litre plastic water tank fitted onto and secured to tank platforms	No	7	
	<b>Carried Forward to Summary of Section No. 9</b>			R
	Section No. 9			
	EXTERNAL WORKS			
	Bill No. 6			
	RAINWATER WATER TANKS			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 10</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>WATER TANKS AND TANKS STANDS</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	8	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	4	
3	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	8	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	41	
	<u>Keeping excavations free of water.</u>			
6	Keeping excavations free of water.	Item		
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
7	Backfilling to trenches, holes, etc.	m3	4	
	<u>Soil insecticide</u>			
8	To bottoms and sides of trenches, etc.	m2	24	
	<u>25Mpa/19mm Concrete</u>			
9	Blinding	m3	4	
	<b>Carried Forward</b>		R	
	Section No. 9 EXTERNAL WORKS Bill No. 7 WATER TANK STANDS			

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	Brought Forward			R	
10	Bases	m3	8		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
11	On top of bases	m2	10		
	<u>"Jojo" approved SANS PVC water tanks</u>				
12	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	2		
13	5 000 Litre plastic water tanks	No	1		
	<u>Structural Steel</u>				
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>				
14	80 x 80mm x 6mm Angle-section	t	1.62		
	<u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel</u>				
15	30 x 30mm x 6mm Flat-section	t	0.24		
16	40 x 40mm x 5mm Angle -section	t	0.24		
17	125 x 50 x 20 x 2mm Lipped channel-section	t	0.58		
18	125 x 75 x 8mm Flat-section	t	0.27		
	<u>Bolts to columns, beams, etc</u>				
19	High tensile bolts	t	0.10		
	<u>Spot priming bare metal surfaces with zinc chromate primer an applying one undercoat and ? coat/coats ? alkyd enamel paint in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091 on previously painted steel in bad condition</u>				
20	Paint to structural steel	m2	125		
	<b>Carried Forward to Summary of Section No. 9</b>			R	
	Section No. 9				
	EXTERNAL WORKS				
	Bill No. 7				
	WATER TANK STANDS				

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.4</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>SEPTIC TANKS, ETC.</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	40	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
2	Holes	m3	56	
	<u>Extra over all excavations for carting away</u>			
3	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	32	
	<u>Risk of collapse of excavations</u>			
4	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	58	
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
5	Backfilling to trenches, holes, etc	m3	7	
	<b>Carried Forward</b>			
	Section No. 9 EXTERNAL WORKS Bill No. 8 SEPTIC TANK			
			R	



	Brought Forward		R	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of all water other than subterranean water		Item	
	<b><u>REINFORCED CONCRETE</u></b>			
	<u>20MPa/19mm concrete</u>			
7	15Mpa in blinding	m3	1	
8	25Mpa in base	m3	7	
9	25Mpa in slab over septic tank	m3	4	
10	Concrete haunch formed below pipes	m3	0.04	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
11	Surface beds, slabs, etc to falls	m2	22	
	<u>Permanent formwork to soffits</u>			
12	Slab over septic tank	m2	22	
	<u>Smooth formwork to form</u>			
13	Opening not exceeding 1m girth through 170mm slab	No	2	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
	<u>Smooth formwork to sides</u>			
14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	20	
	<b><u>REINFORCEMENT</u></b>			
	Carried Forward		R	
	Section No. 9 EXTERNAL WORKS Bill No. 8 SEPTIC TANK			

	<b>Brought Forward</b>			R	
	<u>Fabric reinforcement</u>				
15	Type 888 fabric reinforcement in concrete surface beds, slabs, etc	m2	44		
	<b><u>MASONRY</u></b>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
16	One brick walls	m2	69		
	<u>Brickwork reinforcement</u>				
17	150mm Wide reinforcement built in horizontally	m	228		
	<u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
18	Extra over brickwork for face brickwork in foundation	m2	16		
	<b><u>BRICKWORK SUNDRIES</u></b>				
19	Leave of form 450 x 150mm high opening through a one brick wall	No	2		
20	Leave or form opening through one brickwall for pipe 110mm dia	No	3		
	<b><u>PLASTERING</u></b>				
	<u>Watertight cement plaster on brickwork</u>				
21	On walls	m2	58		
	<u>Two coats approved epoxy coats</u>				
22	On walls and floors	m2	80		
	<u>Screed</u>				
23	On floors	m2	22		
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b>Carried Forward</b>			R	
	Section No. 9 EXTERNAL WORKS Bill No. 8 SEPTIC TANK				

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	Brought Forward			R	
	<u>uPVC pipes</u>				
24	110mm Pipes	m	1		
	<u>Extra over uPVC pipes for fittings</u>				
25	110mm Tee	No	2		
	<u>Cover, etc</u>				
26	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	2		
27	Lifting key for manhole cover	No	2		
	<b><u>FRENCH DRAINS</u></b>				
	<b><u>SITE CLEARANCE ETC</u></b>				
	<u>Site clearance</u>				
28	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20		
	<b><u>EXCAVATION, FILLING, ETC</u></b>				
	<u>Excavation in earth not exceeding 2m deep</u>				
29	Holes	m3	15		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
30	Soft rock	m3	1		
31	Hard rock	m3	2		
	<u>Extra over all excavations for carting away</u>				
32	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	8		
	<b>Carried Forward</b>			R	
	Section No. 9 EXTERNAL WORKS Bill No. 8 SEPTIC TANK				

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	Brought Forward			R	
	<u>Risk of collapse of excavations</u>				
33	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4		
	<u>Keeping excavations free of water</u>				
34	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 (not compacted)</u>				
35	On top of french drain as soil cover	m3	7		
	<b><u>FILTER FABRIC</u></b>				
	<u>"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions</u>				
36	"Kaymat U14" around stone filling in sub-soil drain trenches	m2	20		
	<u>20mm Graded stone filling or similar approved</u>				
37	In holes	m3	5		
	<u>200 - 300mm Diameter clean washed stone filling or similar approved by engineer</u>				
38	In holes	m3	15		
	<b><u>WATERPROOFING</u></b>				
	<u>One layer of 250 micron "Tarkon USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
39	On top of pipes as protection of joints	m2	15		
	<b><u>ROOF SHEETING</u></b>				
	<u>Roof sheeting</u>				
40	On top of french drain	m2	15		
	<b>Carried Forward</b>			R	
	Section No. 9 EXTERNAL WORKS Bill No. 8 SEPTIC TANK				

Brought Forward				R
<u>uPVC pipes</u>				
41	110mm pipes laid in and including trenches	m	15	
42	160mm pipes laid in and including trenches	m	10	
<u>Extra over uPVC pipes for fittings</u>				
43	110mm End cap	No	4	
44	110mm Bend	No	2	
<b>Carried Forward to Summary of Section No. 9</b>				R
Section No. 9				
EXTERNAL WORKS				
Bill No. 8				
SEPTIC TANK				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 10</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists.			
	Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary.			
	The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance".			
	<b><u>N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE</u></b>			
	<b><u>Upgrading and Equipping existing borehole</u></b>			
1	Provide and amount of R100 000.00 ( ONE HUNDRED THOUSAND RAND AND ZERO CENTS) NET for upgrading and equipping existing borehole	Item		100 000.00
2	Allow for profit	Item		
3	Allow for attendance	Item		
	<b>Carried to Final Summary</b>		R	
	Section No. 10 PROVISIONAL SUMS Bill No. 1 Provisional sums			

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