

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></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>			
	Carried Forward		R	
	<p>Section No. 1</p> <p>PRELIMINARIES AND GENERAL</p> <p>Bill No. 1</p> <p>Ps & Gs</p>			

	Brought Forward		R	
	<p><u>PREAMBLES FOR TRADES</u></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><u>GENERAL</u></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><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p> <p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p> <p><u>Objective and Preparation (A2 to A14)</u></p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

	Brought Forward		R	
3	<p>Documents (clause 3)</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Design responsibility (clause 4)</p> <p>F:..... V:..... T:.....</p>	Item		
5	<p>Employer's agents (clause 5)</p> <p>F:..... V:..... T:.....</p> <p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>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</p> <p>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</p>	Item		
6	<p>Site representative (clause 6)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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Brought Forward			R	
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		
12	Effecting insurance (clause 12) F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14) F:..... V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
Carried Forward			R	
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Brought Forward			R	
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		
19	Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
20	Nominated subcontractors (clause 20) F:..... V:..... T:.....	Item		
21	Selected subcontractors (clause 21) F:..... V:..... T:..... 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 All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors	Item		
Carried Forward			R	
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Brought Forward			R	
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) F:..... V:..... T:.....	Item		
25	Works completion (clause 25) F:..... V:..... T:.....	Item		
26	Final completion (clause 26) F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:.....	Item		
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)				
Carried Forward			R	
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	Brought Forward		R	
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
	<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:.....	Item		
	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			
33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34) F:..... V:..... T:.....	Item		
	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			
	Carried Forward		R	
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	Brought Forward		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>	Item		
	<u>Cancellation (A36-A39)</u>			
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		
	<u>Dispute (A40)</u>			
40	<p>Dispute Settlement (clause 40)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<p><u>Substitute Provisions (A41)</u></p> <p>41 State clauses (Clause 41)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p><u>THE SCHEDULE</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>	Item		
	<p>42 Pre-tender information (clause 42)</p> <p>F:..... V:..... T:.....</p> <p><u>42.1 CONTRACTING AND OTHER PARTIES</u></p> <p>42.1.1 Employer: THE MVULA TRUST</p> <p>42.1.2 Principal Agent: HIGH TEMPO INVESTMENT</p> <p><u>42.2 CONTRACT DETAILS</u></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>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

<p style="text-align: center;">Brought Forward</p> <p>42.2.3 Work or installations by direct contractors:</p> <p style="text-align: right;">N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only</p> <p style="text-align: right;">Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given:</p> <p style="text-align: right;">As per the information provided in the Tender Data</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of site:</p> <p style="text-align: right;">7 DAYS</p> <p>42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right;">Intended Date of Practical Completion: <i>As per the information provided in the Tender Data</i></p> <p style="text-align: right;">Penalty Amount: <i>The penalty per calendar day shall be 0.1% of the Tendered Amount (inclusive of value added tax)</i></p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right;">N/A</p>			R
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			R

	Brought Forward		R	
42.2.9	The law applicable to this agreement shall be that of <i>South Africa (country)</i>			
42.3	<u>INSURANCES</u>			
42.3.1	Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Amount + 10.00 %</i> <i>With a deductible of - to be determined by the contractor</i>			
42.3.2	Supplementary insurance is required <i>No</i>			
42.3.3	Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R 5 000 000-00</i> <i>With a deductible of - to be determined by the contractor</i>			
42.4	<u>DOCUMENTS</u>			
42.4.1	Waivers of contractors lien or right of continuing possession is required <i>Yes</i>			
42.4.2	Number of construction document copies to be supplied to the contractor free of charge: <i>3 Number of</i>			
42.4.3	Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: <i>"Standard System of Measuring Builders' Work"</i>			
	Carried Forward		R	
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	Brought Forward		R	
	<p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within</p> <p style="text-align: center;">5 working days</p> <p><i>The priced bills of quantities must be handed in with the tender</i></p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:</p> <p style="text-align: right;">No</p> <p>42.4.6 The contract value is to be adjusted using escalation adjustment indices</p> <p style="text-align: right;">No</p> <p>Where JBCC CPAP is to be used</p> <p style="text-align: right;">Base Month N/A</p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation:</p> <p>Part 1 - Contract Data completed by Employer</p> <p><u>SECTION B: PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p> <p>43 Definition and interpretation (B1.1 - B1.4.6)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p> <p><u>Documents (B2)</u></p> <p>44 Checking of documents (B2.1)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p> <p>45 Provisional bills of quantities (B2.2)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">N/A</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

Brought Forward			R	
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		
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
<u>The site (B3)</u>				
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
Existing premises occupied (B3.4) F:..... V:..... T:..... Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.				
Carried Forward			R	
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Brought Forward			R	
	Previous work - dimensional accuracy (B3.5) F:..... V:..... T:.....			
	Previous work - defects (B3.6) F:..... V:..... T:.....			
53	Services - known (B3.7) F:..... V:..... T:.....	Item		
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		
	<u>Management of contract (B4)</u>			
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		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

	Brought Forward		R	
60	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
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		
	<u>Temporary works and plant (B6)</u>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

	Brought Forward		R	
68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
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		
	<u>Temporary services (B7)</u>			
73	Location (B7.1) F:..... V:..... T:.....	Item		
74	Water (B7.2) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
75	Electricity (B7.3) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

	Brought Forward		R	
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1) F:..... V:..... T:.....	Item		
80	Special attendance (B9.2) F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
82	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
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		
	Carried Forward		R	
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	Brought Forward		R	
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
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		
	<u>Schedule of variables (B12)</u>			
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>			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

	Brought Forward		R	
12.1.2	Availability of construction documentation (B2.3) Construction documentation is not complete <i>No</i>			
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			
12.1.11	Inspection of adjoining properties (B3.11)			
12.1.12	Enclosure of the works (B6.2)			
	Carried Forward		R	
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	Brought Forward		R	
12.1.13 Offices (B6.4.3)				
Specific requirements:				
The contractor shall provide, maintain and remove, on completion of the works, an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.				
12.1.14 Main notice board (B6.5)				
	YES			
12.1.15 Subcontractors notice board (B6.6)				
A notice board is required	Yes			
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				
	Carried Forward		R	
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	Brought Forward		R	
	12.1.23 Disturbance (B11.5) N/A			
	12.1.24 Environmental Disturbance (B11.6) N/A			
	<u>Post tender information (B12.2)</u>			
	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			
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	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			
98	Site instructions 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 F:..... V:..... T:.....	Item		
99	Black economic empowerment and training F:..... V:..... T:.....	Item		
100	Proprietary branded products F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

	Brought Forward		R	
101	<p>Testing of flat roof waterproofing for watertightness</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		
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		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

	Brought Forward		R	
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <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>	Item		
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		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

	Brought Forward		R	
108	<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> <p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

	Brought Forward		R	
	<p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</p> <p>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained.</p>			
109	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item		
	Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines			
110	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item		
	Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc			
111	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item		
	Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>			

Brought Forward			R	
112	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of reflective vests	Item		
113	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hard hats	Item		
114	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of protective footwear	Item		
115	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of earplugs	Item		
116	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of dust masks	Item		
117	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves	Item		
Carried Forward			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs				

Brought Forward			R	
118	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of high visibility overalls to SARTSM Chapter 13 Level 3			
119	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of SANS approved ear defenders			
120	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of face masks (Covid -19)			
121	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of face shields (Covid -19)			
122	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of gloves (Covid -19)			
123	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)			
Carried Forward			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs				

Brought Forward			R	
124	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)			
125	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)			
126	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)			
127	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of signage, including Covid -19 related signage			
128	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of full time construction health and safety officer (SACPCMP Registered)			
129	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs				

	Brought Forward		R	
	Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations			
130	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Medical screenings, examinations, etc in terms of Covid-19 regulations			
131	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Induction training, including Covid-19 training			
132	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of first aid boxes to GSR requirements			
133	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc			
134	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Submission of health and safety file			
135	HIV/AIDS Awareness F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs			

<p style="text-align: center;">Brought Forward</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>		R	
<p style="text-align: center;">Carried to Final Summary</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Ps & Gs</p>		R	

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	105	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	105	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	13	
4	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
5	Soft rock	m3	1	
6	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	4	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	20	
	Carried Forward			
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 1 EARTHWORKS			
			R	

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
9	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>		
10	Under floors, steps, pavings, etc.	m3	4
11	Backfilling to trenches, holes, etc.	m3	31
	<u>Compaction of surfaces</u>		
12	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	29
13	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 AASHTO density	m2	24
	<u>Prescribed density tests on filling</u>		
14	Modified AASHTO Density tests	No	4
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	27
16	To bottom of concrete aprons	m2	20
17	To bottoms and sides of trenches, etc.	m2	44
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 1 EARTHWORKS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	5	
2	2Aprons cast in panels	m3	2	
3	Ramp	m3	1	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	20	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	20	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	22	
	Carried Forward			
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			
			R	

Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc.	m2	26	
	<u>TEST CUBES</u>			
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	4	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25	
	<u>REINFORCEMENT</u>			
	<u>Mesh Reinforcement (measure nett)</u>			
11	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	24	
Carried Forward to Summary of Section No. 2			R	
Section No. 2				
BUILDING WORKS - GR4 (3 SEATS & 1 PARA)				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></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><u>Pointing</u></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> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 3 MASONRY</p>			
			R	

Brought Forward			R
<u>SAMPLES</u> 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			
<u>FOUNDATIONS</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	15
<u>FACE BRICKWORK</u> <u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
2	Extra over brickwork for face brickwork in foundation	m2	4
<u>SUPERSTRUCTURE</u> <u>FACE BRICKWORK</u> <u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
3	Half brickwork for face brick walls pointed both sides	m2	18
4	One brickwork for face brick walls pointed both sides	m2	52
5	Half brickwork for face brickwork in beamfilling	m2	5
6	Fair raking and cutting	m	12
<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>			
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	6
Carried Forward			R
Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 3 MASONRY			

	Brought Forward			R	
8	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4		
9	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brick reinforcement</u>				
10	75mm Wide reinforcement built in horizontally	m	64		
11	150mm Wide reinforcement built in horizontally	m	187		
	<u>Turning pieces</u>				
12	220mm Wide turning piece to lintel etc	m	6		
	<u>Galvanised wire ties etc</u>				
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	15		
	<u>Prestressed fabricated lintels</u>				
14	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	10		
	<u>Ventillation bricks</u>				
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	7		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 3 MASONRY				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	4	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	28	
	<u>FLOOR AND WALLS SEALERS</u>			
	<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	18	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	BUILDING WORKS - GR4 (3 SEATS & 1 PARA)			
	Bill No. 4			
	WATERPROOFING			

SECTION NO. 2

BILL NO. 5

ROOF COVERINGS

SUPPLEMENTARY PREAMBLES

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

PROFIED METAL SHEETING AND ACCESSORIES

**0,6mm "Kliplok" roof sheeting in chromadek finish
fixed to timber purlins (elsewhere)**

1	Roof covering with pitch not exceeding 25 degrees	m2	30
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	15
	<u>RAINWATER DISPOSAL</u>		
	<u>Aluzink seamless metal gutters:</u>		
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6
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	2
7	Ditto ,for shoe	No	1

Carried Forward to Summary of Section No. 2

Section No. 2
BUILDING WORKS - GR4 (3 SEATS & 1 PARA)
Bill No. 5
ROOF COVERINGS

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	41	
2	76 x 38mm Wall plates	m	10	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	36	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	22	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	15	
6	Hurricane clips	No	26	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23	
	Carried Forward		R	
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward				R	
<u>DOORS, ETC.</u>					
<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 Framed batten door 900 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 (D3)	No	1		
10	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. 2				R	
Section No. 2					
BUILDING WORKS - GR4 (3 SEATS & 1 PARA)					
Bill No. 6					
CARPENTRY AND JOINERY					

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	6	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	4	
	<u>HANDLES</u>			
	<u>Approved</u>			
4	150mm Pull handle with back plate.	No	1	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>Approved</u>			
5	90 x 300mm Push plate	No	1	
	Carried Forward			
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 7 IRONMONGERY			
			R	

Carried Forward to Summary of Section No. 2

Section No. 2
BUILDING WORKS - GR4 (3 SEATS & 1 PARA)
Bill No. 7
IRONMONGERY

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<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 900 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high	No	4	
5	Window type NE 7,1022 x 654mm high	No	2	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 8 METALWORK			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	15	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	36	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	15	
4	On internal textured plaster walls and floors in pit	m2	44	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 9 IN SITU FINISHES			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
1	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	
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
2	Vaal semi close suite with 90 degree washdown pan (Junior) and matching vandal proof 6 litre Hibiscus cistern complete with front flush push button, lid, fittings and heavy duty solid white double flap toilet seat	No	3	
3	Vaal "Pearl Paraplegic" semi close couple boxed suite with 90 degree washdown pan (code VAA-730103WH) and matching vandal proof 6 litre purpose made cistern complete with side-flush lever and purpose made urea seat, lid, fittings and heavy duty solid white double flap toilet seat, including F14C cranked rail and F16C cistern rail.	No	1	
4	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	Carried Forward			
	Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE		R	

Brought Forward				R
<u>FITTINGS</u>				
5	19mm chrome plated push button taps to wash troughs	No	2	
6	Elbow taps	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE				

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>GLAZING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6.38mm Obscure safety glass</u></p>			
1	Panes not exceeding 0,1 m2	m2	3
<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 BUILDING WORKS - GR4 (3 SEATS & 1 PARA) Bill No. 11 GLAZING</p>			R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<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	11	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	24	
3	On doors (External)	m2	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	11	
5	On gates (Measured over the full flat area of both sides)	m2	7	
6	On gutters and down pipes	m	3	
	<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	m2	6	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	BUILDING WORKS - GR4 (3 SEATS & 1 PARA)			
	Bill No. 12			
	PAINTWORK			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	102	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	102	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	9	
4	Pit	m3	30	
5	For aprons thickening	m3	11	
	<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	32	
	Carried Forward			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL 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	56	
	<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	3	
12	Backfilling to trenches, holes, etc.	m3	5	
	<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 AASHTO density	m2	31	
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 AASHTO density	m2	10	
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 AASHTO density	m2	33	
	<u>Prescribed density tests on filling</u>			
16	Modified AASHTO Density tests	No	4	
Carried Forward			R	
Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 1 EARTHWORKS				

Brought Forward			R
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	33
18	To bottom of concrete aprons	m2	23
19	To bottoms and sides of trenches, etc.	m2	22
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 1 EARTHWORKS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	5	
2	Ditto, but surface bed in pit	m3	30	
3	2Aprons cast in panels	m3	4	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	15	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	15	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	22	
	Carried Forward			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT		R	

Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc.	m2	33	
	<u>TEST CUBES</u>			
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	4	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	37	
	<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	16	
12	Leave or form 500mm diameter opening in top of floor slab	No	6	
	<u>REINFORCEMENT</u>			
	<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	33	
Carried Forward to Summary of Section No. 3			R	
Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></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><u>Pointing</u></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> <p style="text-align: right;">Carried Forward</p> <p>Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 3 MASONRY</p>			
			R	

Brought Forward			R
<u>SAMPLES</u>			
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			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	10
2	One brick walls in pit	m2	19
3	4Half brick corbelling in pit	m	8
<u>FACE BRICKWORK</u>			
Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
4	Extra over brickwork for face brickwork in foundation	m2	4
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
5	Half brickwork for face brick walls pointed both sides	m2	32
6	One brickwork for face brick walls pointed both sides	m2	68
7	Extra over brickwork for face brickwork in beamfilling	m2	5
8	Fair raking and cutting	m	11
Carried Forward			R
Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL 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	16	
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	13	
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	181	
13	150mm Wide reinforcement built in horizontally	m	433	
	<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	20	
	<u>Prestressed fabricated lintels</u>			
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	10	
	<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	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 3 MASONRY			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<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	33	
	<u>FLOOR AND WALLS SEALERS</u>			
	<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	11	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 4 WATERPROOFING			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	35	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	35	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
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	6	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 5 ROOF COVERINGS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	42	
2	76 x 38mm Wall plates	m	23	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	64	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	40	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	15	
6	Hurricane clips	No	24	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	27	
	Carried Forward			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 6 CARPENTRY AND JOINERY		R	

Brought Forward			R	
<u>DOORS, ETC.</u>				
<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 Framed batten door 900 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 (D3)	No	1	
10	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	3	
Carried Forward to Summary of Section No. 3			R	
Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 6 CARPENTRY AND JOINERY				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	5	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	3	
	<u>HANDLES</u>			
	<u>Approved</u>			
4	150mm Pull handle with back plate.	No	1	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>Approved</u>			
5	90 x 300mm Push plate	No	1	
	Carried Forward			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 7 IRONMONGERY			
			R	

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Brought Forward				R
<u>BATHROOM FITTINGS</u>				
<u>"Kimberley-Clark" or Simlilar</u>				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4	
<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 7 IRONMONGERY</p>				R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	3	
	<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 900 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high	No	7	
5	Window type NE 7,1022 x 654mm high	No	4	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 8 METALWORK			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	33	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	19	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	33	
4	On internal textured plaster walls and floors in pit	m2	33	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 9 IN SITU FINISHES			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Standard Model, complete as per manufacturer's specification	No	4	
2	Supply and Install "Enviro-Loo" 3-bowl Urinal Evaporative Tank system complete as per manufacturer's specification	No	3	
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	6	
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
4	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	Carried Forward			
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 10 PLUMBING AND DRAINAGE			
			R	

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<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	7	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	20	
3	On doors (External)	m2	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	4	
5	On gates (Measured over the full flat area of both sides)	m2	6	
6	On gutters and down pipes	m	10	
	<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	m2	11	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS - M3 (3 SEATS, 1 PARA & 9 URINAL Bill No. 12 PAINTWORK			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	79	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	79	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	10	
4	Pit	m3	19	
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	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	20	
	Carried Forward			
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) 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	44		
	<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	5		
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 AASHTO 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 AASHTO density	m2	11		
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 AASHTO density	m2	19		
	<u>Prescribed density tests on filling</u>				
16	Modified AASHTO Density tests	No	4		
Carried Forward				R	
Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 1 EARTHWORKS					

Brought Forward		R
<u>SOIL POISONING</u>		
<u>Soil insecticide</u>		
Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	21
To bottom of concrete aprons	m2	19
To bottoms and sides of trenches, etc.	m2	56
Carried Forward to Summary of Section No. 4		R
Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 1 EARTHWORKS		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	2	
2	Ditto, but surface bed in pit	m3	1	
3	Aprons cast in panels	m3	1	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	11	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	18	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	9	
	Carried Forward			
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			
			R	

Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc.	m2	26	
	<u>TEST CUBES</u>			
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	4	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	13	
	<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	6	
12	Leave or form 500mm diameter opening in top of floor slab	No	9	
	<u>REINFORCEMENT</u>			
	<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	26	
Carried Forward to Summary of Section No. 4			R	
Section No. 4				
BUILDING WORKS - F3 (3 SEATS & 1 PARA)				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 3</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></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><u>Pointing</u></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> <p style="text-align: right;">Carried Forward</p>			
	<p>Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 3 MASONRY</p>		R	

Brought Forward			R
<u>SAMPLES</u>			
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			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	10
2	One brick walls in pit	m2	15
3	Half brick corbelling in pit	m	11
<u>FACE BRICKWORK</u>			
Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
4	Extra over brickwork for face brickwork in foundation	m2	4
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
5	Half brickwork for face brick walls pointed both sides	m2	20
6	One brickwork for face brick walls pointed both sides	m2	44
7	Extra over brickwork for half brick walls in beamfilling	m2	3
8	Fair raking and cutting	m	4
Carried Forward			R
Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) 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	7	
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	7	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	81	
13	150mm Wide reinforcement built in horizontally	m	145	
	<u>Turning pieces</u>			
14	220mm Wide turning piece to lintel etc	m	6	
	<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	14	
	<u>Prestressed fabricated lintels</u>			
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8	
	<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	5	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 3 MASONRY			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	3	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	26	
	<u>FLOOR AND WALLS SEALERS</u>			
	<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	21	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	BUILDING WORKS - F3 (3 SEATS & 1 PARA)			
	Bill No. 4			
	WATERPROOFING			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	33	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sundries</u>			
	<u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u>			
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	33	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6	
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	2	
7	Ditto ,for shoe	No	1	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	BUILDING WORKS - F3 (3 SEATS & 1 PARA)			
	Bill No. 5			
	ROOF COVERINGS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	34	
2	76 x 38mm Wall plates	m	10	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	27	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	9	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14	
6	Hurricane clips	No	17	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	11	
	Carried Forward		R	
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward			R	
<u>DOORS, ETC.</u>				
<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 Framed batten door 900 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 (D3)	No	1	
10	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	3	
Carried Forward to Summary of Section No. 4			R	
Section No. 4				
BUILDING WORKS - F3 (3 SEATS & 1 PARA)				
Bill No. 6				
CARPENTRY AND JOINERY				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	5	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	5	
	<u>HANDLES</u>			
	<u>Approved</u>			
4	150mm Pull handle with back plate.	No	1	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>Approved</u>			
5	90 x 300mm Push plate	No	1	
	Carried Forward			
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 7 IRONMONGERY			
			R	

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high (Frame undercut to 120mm)	No	3	
	<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 900 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high	No	4	
5	Window type NE 7,1022 x 654mm high	No	3	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	BUILDING WORKS - F3 (3 SEATS & 1 PARA)			
	Bill No. 8			
	METALWORK			

SECTION NO. 4

PLASTERING

SUPPLEMENTARY PREAMBLES

For preambles see "Specifications of materials and methods to be used - PW 371"

CEMENT SCREEDS TO CONCRETE

Screeds to steel trowelled, on concrete:

1	30mm thick on floors	m2	26
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INTERNAL PLASTER

Cement plaster on brickwork or blockwork

2	On pits walls	m2	26
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FLOOR AND WALLS SEALERS

Minimum two coats approved epoxy coat:

3	On screed	m2	26
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4	On internal textured plaster walls and floors in pit	m2	72
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Carried Forward to Summary of Section No. 4

Section No. 4
BUILDING WORKS - F3 (3 SEATS & 1 PARA)
Bill No. 9
IN SITU FINISHES

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Standard Model, complete as per manufacturer's specification	No	4	
2	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	
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
3	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	Carried Forward		R	
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE			

Brought Forward				R
<u>FITTINGS</u>				
4	19mm chrome plated push button taps to wash troughs	No	2	
5	Elbow taps	No	1	
<p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE</p>				R

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<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	20	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	20	
3	On doors (External)	m2	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	6	
5	On gates (Measured over the full flat area of both sides)	m2	7	
6	On gutters and down pipes	m	13	
	<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	m2	7	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS - F3 (3 SEATS & 1 PARA) Bill No. 12 PAINTWORK			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	101	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	101	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	11	
4	Pit	m3	22	
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	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	23	
	Carried Forward		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) 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	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 prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
11	Under floors, steps, pavings, etc.	m3	6	
12	Backfilling to trenches, holes, etc.	m3	5	
	<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 AASHTO density	m2	24	
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 AASHTO density	m2	13	
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 AASHTO density	m2	22	
	<u>Prescribed density tests on filling</u>			
16	Modified AASHTO Density tests	No	5	
Carried Forward			R	
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 1 EARTHWORKS				

Brought Forward		R
<u>SOIL POISONING</u>		
<u>Soil insecticide</u>		
Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	24
To bottom of concrete aprons	m2	13
To bottoms and sides of trenches, etc.	m2	99
Carried Forward to Summary of Section No. 5		R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 1 EARTHWORKS		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	3	
2	Ditto, but surface bed in pit	m3	2	
3	Aprons cast in panels	m3	2	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	13	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	17	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	11	
	Carried Forward			
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT		R	

Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc.	m2	31	
	<u>TEST CUBES</u>			
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	5	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	15	
	<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	9	
12	Leave or form 500mm diameter opening in top of floor slab	No	10	
	<u>REINFORCEMENT</u>			
	<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	31	
Carried Forward to Summary of Section No. 5			R	
Section No. 5				
BUILDING WORKS - F4 (4 SEATS & 1 PARA)				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO. 3</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></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><u>Pointing</u></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>			
	Carried Forward		R	
	<p>Section No. 5</p> <p>BUILDING WORKS - F4 (4 SEATS & 1 PARA)</p> <p>Bill No. 3</p> <p>MASONRY</p>			

Brought Forward			R
<u>SAMPLES</u> 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			
<u>FOUNDATIONS</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	11
2	One brick walls in pit	m2	17
3	Half brick corbelling in pit	m	13
<u>FACE BRICKWORK</u> Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
4	Extra over brickwork for face brickwork in foundation	m2	5
<u>SUPERSTRUCTURE</u> <u>FACE BRICKWORK</u> Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints			
5	Half brickwork for face brick walls pointed both sides	m2	24
6	One brickwork for face brick walls pointed both sides	m2	64
7	Extra over brickwork for face brickwork in beamfilling	m2	5
8	Fair raking and cutting	m	5
Carried Forward			R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) 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	8	
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	8	
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	8	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	95	
13	150mm Wide reinforcement built in horizontally	m	171	
	<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	17	
	<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	5	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 3 MASONRY			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 4</u>			
<u>WATERPROOFING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	4
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	31
<u>FLOOR AND WALLS SEALERS</u>			
<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	25
Carried Forward to Summary of Section No. 5			R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 4 WATERPROOFING			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	36	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sundries</u>			
	<u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u>			
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	36	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
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	1	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5			
	BUILDING WORKS - F4 (4 SEATS & 1 PARA)			
	Bill No. 5			
	ROOF COVERINGS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	40	
2	76 x 38mm Wall plates	m	12	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	32	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	10	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	17	
6	Hurricane clips	No	18	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	19	
	Carried Forward		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward				R	
<u>DOORS, ETC.</u>					
<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 Framed batten door 900 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 (D3)	No	1		
10	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. 5				R	
Section No. 5					
BUILDING WORKS - F4 (4 SEATS & 1 PARA)					
Bill No. 6					
CARPENTRY AND JOINERY					

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 7</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	6	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	4	
	<u>HANDLES</u>			
	<u>Approved</u>			
4	150mm Pull handle with back plate.	No	1	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>Approved</u>			
5	90 x 300mm Push plate	No	1	
	Carried Forward			
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 7 IRONMONGERY			
			R	

Brought Forward			R
<u>DOOR CLOSERS</u>			
<u>Approved</u>			
Door closer as per approved catalogue	No	1	
<u>DOORSTOPS</u>			
<u>Approved</u>			
38mm Diameter rubber door stop plugged	No	6	
<u>LETTERS, NAMEPLATES, ETC.</u>			
<u>"Union" or similar approved</u>			
75 x 150mm Natural anodised aluminium plate with female symbol	No	2	
Carried Forward			R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 7 IRONMONGERY			

Brought Forward			R	
<u>BATHROOM FITTINGS</u>				
<u>"Kimberley-Clark" or Similar</u>				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5	
<u>Sundries</u>				
10	Female she-bins	No	3	
Carried Forward to Summary of Section No. 5			R	
Section No. 5				
BUILDING WORKS - F4 (4 SEATS & 1 PARA)				
Bill No. 7				
IRONMONGERY				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<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 900 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard industrial windows with type "B1" burglar bars to opening sashes</u>			
4	Window type NE1, 533 x 654mm high	No	5	
5	Window type NE 7,1022 x 654mm high	No	3	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
6	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 8 METALWORK			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	32	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	32	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	32	
4	On internal textured plaster walls and floors in pit	m2	85	
	<u>EPOXY</u>			
5	Epoxy finish to floors	m2	85	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 9 IN SITU FINISHES			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Standard Model, complete as per manufacturer's specification	No	5	
2	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	4	
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
3	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	Carried Forward		R	
	Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE			

	Brought Forward	R
FITTINGS		
4 19mm chrome plated push button taps to wash troughs	No	4
5 Elbow taps	No	1
Carried Forward to Summary of Section No. 5		R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 10 PLUMBING AND DRAINAGE		

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 12</u>			
<u>PAINTWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>ON FIBRE-CEMENT</u>			
<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	12
<u>ON WOOD</u>			
<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	26
3	On doors (External)	m2	7
<u>ON METAL</u>			
<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	7
5	On gates (Measured over the full flat area of both sides)	m2	8
6	On Gutters and downpipes	m	17
<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	m2	8
Carried Forward to Summary of Section No. 5			R
Section No. 5 BUILDING WORKS - F4 (4 SEATS & 1 PARA) Bill No. 12 PAINTWORK			

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 1</u>			
	<u>PAVED WALKWAYS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Site Clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	390	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	390	
	<u>Open face excavation in earth over sloping site</u>			
3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	78	
	<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	78	
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>			
5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	59	
	Carried Forward		R	
	Section No. 6 EXTERNAL WORKS Bill No. 1 PAVED WALKWAYS			

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
6	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	390		
	<u>Soil poisoning</u>				
7	Weedkiller (active ingredients metolachlor 102,8 g/l, terbutylazin 248,6 g/l and atrazine 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 ² on cleared ground	m2	390		
	<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>				
8	Paving to toilet areas etc to falls	m2	390		
9	25Mpa/19mm unreinforced concrete edge beam	m	507		
Carried Forward to Summary of Section No. 6				R	
Section No. 6 EXTERNAL WORKS Bill No. 1 PAVED WALKWAYS					

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 2</u>			
	<u>WATER TANKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	30	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	2	
3	Hard rock	m3	1	
	<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	30	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	65	
	<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	15	
	Carried Forward			
	Section No. 6 EXTERNAL WORKS Bill No. 2 WATER TANKS		R	

	Brought Forward			R	
	<u>Soil insecticide</u>				
8	To bottoms and sides of trenches, etc.	m2	36		
	<u>15Mpa/19mm Concrete</u>				
9	Strip footings	m3	14		
10	Platform surface beds cast in panels	m3	8		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
11	Platform surface beds	m2	20		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
12	One brick walls	m2	70		
	<u>Brick reinforcement</u>				
13	150mm Wide reinforcement built in horizontally	m	200		
	<u>Face bricks pointed with recessed horizontal and vertical joints to match the existing.</u>				
14	Extra over brickwork for face brickwork in foundation	m2	50		
	<u>Extra over brickwork for face brickwork in foundation bricks pointed with recessed joints on all exposed faces to match the existing.</u>				
15	Coping on top of one brick wall	m	40		
	<u>One layer of 375 micron embossed black polyethylene damp proof course</u>				
16	On walls	m2	20		
	<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.</u>				
17	Under surface beds	m2	20		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 2 WATER TANKS				

Brought Forward			R
<u>Galvanized medium normalized mild steel piping</u>			
25mm Pipes	m	250	
50mm Pipes	m	250	
<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
25mm Fittings.	No	50	
50mm Elbows.	No	50	
50mm Union.	No	50	
50mm Reducing bush.	No	50	
15mm "Cobra Ref. 108LK" brass hose biptap.	No	30	
<u>"Jojo" approved SANS PVC water tanks</u>			
2 500 Litre plastic water tank fitted onto and secured to tank platforms	No	2	
10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	3	
Carried Forward to Summary of Section No. 6			R
Section No. 6 EXTERNAL WORKS Bill No. 2 WATER TANKS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 3</u>			
	<u>FENCING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Welded mesh fence</u>			
1	1800mm High welded mesh fencing formed of 2.5 x 50mm galvanized welded mesh in long lengths, with three strands of 1.6mm galvanized steel wire at 150mm centres to and including four strings of 2.5mm galvanized steel binding wire stringed through holes and secured to straining bolts or posts ,10mm Diameter galvanized straining eye bolt 300mm long with nut and washer sawn off and bent after straining, 3150mm high, 50mm diameter x 2.8mm round mild steel intermediates posts with cover cap,Corner post formed of 100mm diameter x 3mm thick x 3150mm overall length steel post and 50mm Diameter x 2.6mm steel stays.	m	330	
2	1800mm High and 900mm wide swing gate from 32mm diameter framework, all tube hot dipped galvanised after fabrication, with 50 x 50 x 2.5mm hot dipped galvanised welded mesh infill, fixed with heavy duty hinges to 100mm diameter x 3.5mm HDG corner posts, 2400mm long with standard type cap, 150 x 150 x 3mm base plate and casting into and including 500 x 500 x 600mm deep 20MPa concrete in ground, each corner post with off 32mm diameter x 2.5mm HDG stays at 45 degree angle, 50 x 50 x 2mm baseplate and casting into and including 300 x 300 x 300mm deep 20MPa concrete complete with all earthworks, trimmings and fixing	No	2	
	Carried Forward		R	
	Section No. 6 EXTERNAL WORKS Bill No. 3 FENCING			

	Brought Forward			R	
	<u>Steel palisade fence</u>				
3	1800mm High steel palisade fencing formed of 1800 x 3000mm panels; 40 x 40 x 2mm welded angle iron, 300mm from top of paling and 300mm from bottom paling; 21 paling "devil fork" per panel; 30 x 30 x 2mm steel angle iron paling 1800mm high; Corner post formed of 30 x 30 x 2mm thick steel square tubing 2400mm overall length (600mm planted into concrete footing to engineer's specification).	m	1 210		
4	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 angel 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		
5	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		
	<u>PAINTWORK</u>				
	<u>ON METAL</u>				
	<u>Undercoat and minimum 2 coat gloss enamel</u>				
6	On palisade fence (Measured over the full flat area of both sides according to specification)	m2	4 356		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6				
	EXTERNAL WORKS				
	Bill No. 3				
	FENCING				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 4</u>			
	<u>SEPTIC TANK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	97	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Excavation in earth for septic tank not exceeding 2m deep (pit)	m3	156	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
3	Soft rock	m3	16	
4	Hard rock	m3	8	
	<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 allocated by the Contractor	m3	156	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavation not exceeding 1,5m deep	m2	55	
	Carried Forward		R	
	Section No. 6 EXTERNAL WORKS Bill No. 4 SEPTIC TANK			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
7	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>		
8	Around septic tank (Working space)	m3	55
	<u>Compaction of surfaces</u>		
9	Compaction of ground surface under septic tank 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	78
10	Compaction of ground surface sides of septic tank 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	52
	<u>Prescribed density tests on filling</u>		
11	Modified AASHTO Density tests	No	8
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
12	Under septic tank etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	78
13	To bottoms and sides of septic tank, etc.	m2	55
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>		
	<u>25MPa/19mm Concrete</u>		
14	Septic tank base	m3	12
15	Septic tank cover slab	m3	7
Carried Forward			R
Section No. 6 EXTERNAL WORKS Bill No. 4 SEPTIC TANK			

	Brought Forward			R	
	<u>Rough Formwork</u>				
16	Edges,risers,ends and reveals not exceeding 300mm high or wide	m	62		
17	Smooth forwork to Soffits of slabs 1.5m high	m2	45		
	<u>Reinforcement</u>				
18	Mesh ref No.193 fabric reinforcement fixed horizotal in slabs	m2	123		
	<u>MASONRY</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	Half brick walls	m2	7		
20	One brick walls	m2	40		
	<u>Sundries</u>				
	<u>Membranes</u>				
21	Geotextile or polythene membrane	m2	45		
	<u>Brickwork reinfocement</u>				
22	75mm Wide reinforcement built in horizotally	m	110		
23	150mm Wide reinforcement built in horizotally	m	476		
	<u>METALWORK</u>				
	<u>MANHOLE COVER</u>				
24	600 x 600mm diametre double seal airtight manhole cover and frame	No	2		
	<u>PLASTERING</u>				
25	Cement plaster screed steel trowelled on concrete floors to falls and currents	m2	45		
	Carried Forward			R	
	Section No. 6 EXTERNAL WORKS Bill No. 4 SEPTIC TANK				

	Brought Forward			R	
26	Cement plaster finished smooth with a steel trowelled to brick walls	m2	57		
	<u>Waterproofing</u>				
27	Bitumen waterproofing on plasterd walls	m2	57		
28	Bitumen waterproofing on floors	m2	45		
	<u>FRENCH DRAIN</u>				
	<u>Site clearance</u>				
29	Digging up and removing rubbish	m2	46		
	<u>Earthworks</u>				
30	Excavation in earth for french drain not exceeding 2m deep	m3	9		
31	Surplus materials from and stock piles on site to a dumping site to be located bythe contractor	m3	6		
32	Risk of collapse of excavations from ground level exceeding 1,5m but not exceeding 2m deep	m3	7		
33	Filling from excavations in backfilling to top french	m3	2		
34	Approved stone filling of selected stones availaible on site or carted on ,in filling to french drain	m3	5		
	<u>PLUMBING AND DRAINAGE</u>				
35	Excavation sloping towards the septic tank	m3	27		
36	Backfilling to trenches	m3	26		
37	110mm inlet uPVC pipe to septic tank	m	55		
38	110mm Outlet uPVCpipe to french drain	m	10		
39	50mm pipe for inspection	m	5		
40	110mm inspection eye	No	4		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6				
	EXTERNAL WORKS				
	Bill No. 4				
	SEPTIC TANK				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 5</u>			
	<u>STORM WATER CONTROL</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Earthworks</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	200	
2	Excavate in earth below natural, reduced or made up ground level, not exceeding 2m deep, to reduced levels under aprons, paving, etc	m3	50	
3	Extra over surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	50	
4	Extra over trench or hole for excavations in soft rock	m3	20	
5	Extra over trench or hole for excavations in hard rock	m3	10	
6	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	160	
7	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	160	
	Carried Forward		R	
	Section No. 6 EXTERNAL WORKS Bill No. 5 STORM WATER CONTROL			

Brought Forward		R
<u>Reinforced Concrete</u>		
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 softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	160
Extra for fair open end	No	20
Extra for fair stopped end	No	10
Extra for angle intersection	No	16
Carried Forward to Summary of Section No. 6		R
Section No. 6 EXTERNAL WORKS Bill No. 5 STORM WATER CONTROL		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 6</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Refurbishment of Existing Septic Tank:</u>			
1	Provide an amount of R70 000.00 (Seventy Thousand Rand and Zero Cents) for renovations of existing septic tank.	No	1	
	<u>Structural Tank Stands as per Design:</u>			
2	Provide an amount of R40 000.00 (Forty Thousand Rand and Zero Cents) for each structural steel tank stand as per approved design.	No	3	
	<u>Drinkable Water Standpipes:</u>			
3	Provide an amount of R2 500.00 (Two Thousand Five Hundred Rand and Zero Cents) for each standpipe providing drinkable water..	No	3	
	<u>Demolitions of Existing Pit Toilets:</u>			
4	Provide an amount of R3 750.00 (Three Thousand Seven Hundred and Fifty Rand and Zero Cents) per seat for demolitions of existing pit toilets.	No	8	
	<u>Refurbishment of Existing Enviro Loo Toilets:</u>			
5	Provide an amount of R17 500.00 (Seventeen Thousand Five Hundred Rand and Zero Cents) per seat for refurbishment of existing Enviro Loo toilets.	No	4	
	Carried Forward			
	Section No. 6 EXTERNAL WORKS Bill No. 6 BUDGETARY ALLOWANCES		R	

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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".			
	<u>N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE</u>			
	<u>Equipping, testing existing borehole and upgrade reticulation system:</u>			
1	Provide an amount of R280 000.00 (Two Hundred and Eighty Thousand Rand and Zero Cents) for testing and equipping existing borehole and upgrading reticulation.	Item		280 000,00
2	Allow for profit	Item		
3	Allow for attendance	Item		
	Carried Forward		R	
	Section No. 7 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

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