

<u>SUMMARY</u>		TOTAL TO DATE	
1	Preliminaries	Page	R -
2	Earthworks (provisional)	Page	R -
3	Concrete, formwork and reinforcement	Page	R -
4	Masonry	Page	R -
5	Waterproofing	Page	R -
6	Roof coverings, claddings, etc	Page	R -
7	Carpentry and joinery	Page	R -
8	Ceilings, partitions and access flooring	Page	R -
9	Ironmongery	Page	R -
10	Metalwork	Page	R -
11	Plastering	Page	R -
12	Tiling	Page	R -
13	Plumbing and drainage	Page	R -
14	Paintwork	Page	R -
15	External work	Page	R -
Sub total Excluding Vat			R -
Add Contingency			R300,000
Sub total 2 Excluding Vat			
Value added tax at 15%			
Subtotal Carried to Form of Offer			

Item No		Quantity	Amount
	<b><u>BILL NO 1</u></b>		
	<b><u>PRELIMINARIES</u></b>		
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>		
	<b><u>Disclaimer</u></b>		
	<p>While the ASAQs aims to ensure that its publications represent best practice, the ASAQs does not accept or assume any liability or responsibility for any events or consequences thereof that derive from the use of the Preliminaries Master Bill. Such Master Bill is not exhaustive and is therefore only intended to provide general guidance to those who wish to make use of it. This publication is provided "as is" without warranty of any kind, either expressed or implied including but without limitation to warranties of merchantability, fitness for a particular purpose and non-infringement</p>		
	<p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p>		
	<p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement.</p>		
	<p>The ASAQs Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these</p>		
	<b>provisional bills of quantities</b>		
	<p><b>Contractors</b> are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p>		

Item No		Quantity	Amount
	<p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement 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 abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A, signifying "not applicable"</p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>provisional bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these <b>provisional bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>provisional bills of quantities</b> must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Should the contractor select Option A in terms of sub clause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p> <p><b><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></b></p>		

Item No		Quantity	Amount
	<b><u>Definitions (A1)</u></b>		
1	Clause 1.0 - Definitions and interpretation The measuring system used for the preparation of the provisional bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]	Item	
	<b><u>Objective and preparations (A2 - A14)</u></b>		
2	Clause 2.0 - Offer acceptance and performance obligations F: ..... V: ..... T: .....	Item	
	<b>Carried Forward R</b>		
	<b>Brought Forward</b>	R	
3	Clause 3.0 - Documents  The contract drawings are as listed in Part C 3.3. Scope Of Works. Provision is made in the summary page of these provisional bills of quantities for the inclusion of Value Added Tax (VAT) [3.5] The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9] F: ..... V: ..... T: .....	Item	
4	Clause 4.0 - Design responsibility F: ..... V: ..... T: .....	Item	
5	Clause 5.0 - Employer's agents F: ..... V: ..... T: .....	Item	

Item No		Quantity	Amount
6	Clause 6.0 - Contractor's site representative	Item	
7	<p>Clause 7.0 - Compliance with laws and regulations</p> <p>Without limiting the generality of the provisions of clause 7.0, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the works (refer to Annexure 5.1 for a copy of the relevant specification) and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item (refer to Annexure 5.1 for a copy of the relevant Bills of Quantities for pricing) for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [7.1]</p> <p>F: ..... V: ..... T: .....</p>	Item	
8	<p>Clause 8.0 - Works risk</p> <p>F: ..... V: ..... T: .....</p>	Item	
9	<p>Clause 9.0 - Indemnities</p> <p>F: ..... V: ..... T: .....</p>	Item	
10	<p>Clause 10.0 - General insurances</p> <p>F: ..... V: ..... T: .....</p>	Item	
11	<p>Clause 11.0 - Special insurances</p> <p>F: ..... V: ..... T: .....</p>	Item	
12	<p>Clause 12.0 - Effecting insurances</p> <p>F: ..... V: ..... T: .....</p>	Item	
	Carried Forward	R	
	Brought Forward	R	

Item No		Quantity	Amount
13	Clause 13.0 - Assignment F: ..... V: ..... T: .....	Item	
14	Clause 14.0 - Security F: ..... V: ..... T: .....	Item	
	<b><u>Execution (A15 - A23)</u></b>		
15	Clause 15.0 - Preparation for and execution of the works F: ..... V: ..... T: .....	Item	
16	Clause 16.0 - Site and access  A geotechnical investigation has been done and will be available for viewing at the offices of the Principal Agent. [16.4] The contractor will have full use of the site. Refer to Site Information item C.4.1.  There are no current structures or services such as water, sewerage and electricity on site and connections will have to be made to main supply lines. Services will be pointed out to the tenderers at the site inspection meeting. Refer to Scope Of Works item C.3.4. (Refer to clause 16.7)  F: ..... V: ..... T: .....	Item	
17	Clause 17.0 - Contract instructions F: ..... V: ..... T: .....	Item	
18	Clause 18.0 - Setting out of the works  The <b>contractor</b> shall notify the <b>principal agent</b> 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 [18.1].  F: ..... V: ..... T: .....	Item	
19	Clause 19.0 - Temporary works and plant		

Item No		Quantity	Amount
	<p>The contractor shall price opposite this item for compliance with all the requirements. Refer to item C.3.6.4. and C.4.1.3. Scope Of Works for details relating to enclosure and protection of the works and item 3.6.1. for office accommodation.</p> <p>F: ..... V: ..... T: .....</p>	Item	
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F: ..... V: ..... T: .....</p>	Item	
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F: ..... V: ..... T: .....</p>	Item	
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F: ..... V: ..... T: .....</p>	Item	
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b><u>Completion (A24 - A30)</u></b></p>		
24	<p>Clause 24.0 - Practical completion</p> <p>F: ..... V: ..... T: .....</p>	Item	
25	<p>Clause 25.0 - Works completion</p> <p>F: ..... V: ..... T: .....</p>	Item	
26	<p>Clause 26.0 - Final completion</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<p>Carried Forward</p>	R	R -

Item No		Quantity	Amount
	<b>Brought Forward</b>	R	R -
27	Clause 27.0 - Latent defects liability period F: ..... V: ..... T: .....	Item	
28	Clause 28.0 - Sectional completion No sectional completion is anticipated. F: ..... V: ..... T: .....	Item	
29	Clause 29.0 - Revision of date for <b>practical completion</b> The removal and replacement of materials and/or workmanship which do not conform to specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F: ..... V: ..... T: .....	R  Item	
30	Clause 30.0 - Penalty for late or non-completion F: ..... V: ..... T: .....	Item	
	<b><u>Payment (A31 - A35)</u></b>		
31	Clause 31.0 - Interim payment  The inclusion of <b>materials and goods</b> stored off <b>site</b> in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the <b>principal agent</b> and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable.		
32	Clause 32.0 - Adjustment to the contract value  The contract value shall be adjusted according to CPAP using information stated in the Contract Data [32.13]. Fluctuations in costs in the rate of Value Added Tax shall be deemed incorporated into the contract.		



Item No		Quantity	Amount
	<p>Where prices are submitted by the <b>contractor</b> or <b>n/s subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> 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 <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing.</p> <p>The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss or profit shall not be entertained [32.2]</p> <p>F: ..... V: ..... T: .....</p>		
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F: ..... V: ..... T: .....</p>	Item	
34	<p>Clause 34.0 - Final account and final payment</p> <p>F: ..... V: ..... T: .....</p>	Item	
35	<p>Clause 35.0 - Payment to other parties</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b><u>Termination (A36 - A39)</u></b></p>		
36	<p>Clause 36.0 - Termination by <b>employer - contractor's</b> default</p> <p>F: ..... V: ..... T: .....</p>	Item	
37	<p>Clause 37.0 - Termination by <b>employer</b> - loss and damage</p> <p>F: ..... V: ..... T: .....</p>	Item	
38	<p>Clause 38.0 - Termination by <b>contractor - employer's</b> default</p> <p>F: ..... V: ..... T: .....</p>	Item	
39	<p>Clause 39.0 - Termination - cessation of the <b>works</b></p> <p>F: ..... V: ..... T: .....</p>	Item	

Item No		Quantity	Amount
	<b>Carried Forward</b>	R	R -
	<b>Brought Forward</b>	R	R -
	<b><u>Dispute (A40)</u></b>		
40	Clause 40.0 - Settlement of disputes F: ..... V: ..... T: .....	Item	
	<b><u>Contract variables (A41 - A42)</u></b>		
41	Clause 41.0 - Post tender provisions The contractor is to complete before submission of his tender the <b>JBCC</b> Principal Building Agreement <b>Contract Data CE</b> F: ..... V: ..... T: .....	Item	
42	Clause 42.0 - Contractual agreement The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F: ..... V: ..... T: .....	Item	
	<b><u>SECTION B - PRELIMINARIES</u></b>		
	<b><u>Definitions and interpretation (B1)</u></b>		
43	Clause 1.0 - Definitions and interpretation F: ..... V: ..... T: .....	Item	
	<b><u>Documents (B2)</u></b>		
44	Clause 2.1 - Checking of documents F: ..... V: ..... T: .....	Item	
45	Clause 2.2 - Provisional <b>bills of quantities</b>  These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or selected subcontract amounts.  F: ..... V: ..... T: .....	Item	

Item No		Quantity	Amount
46	<p><b><u>B1.4 PROVISIONAL BILLS OF QUANTITIES</u></b></p> <p>F: ..... V: ..... T: .....</p> <p>Where reference is made in the documents to bills of quantities it shall be taken as referring to these Provisional Bills of Quantities. All quantities are provisional, are an indication of the extent and type of work to be executed and have been inserted in order to obtain competitive tenders. All work carried out under this contract shall be re measured and valued at schedule rates and in accordance with the Conditions of Contract</p>	Item	
47	<p>Clause 2.3 - Availability of construction documentation</p> <p>The <b>budgetary allowances</b> and selected subcontract amounts allocated for subsequent trades included in this <b>agreement</b> will be separately procured, based on multiple procurement of selected subcontractors during the <b>construction period</b></p> <p>F: ..... V: ..... T: .....</p>	Item	
	<b><u>Previous work and adjoining properties (B3)</u></b>		
48	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F: ..... V: ..... T: .....</p>	Item	
49	<p>Clause 3.2 - Previous work - defects</p> <p>F: ..... V: ..... T: .....</p>	Item	
50	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<b><u>Samples, shop drawings and manufacturer's instructions (B4)</u></b>		
51	<p>Clause 4.1 - Samples of materials</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<b>Carried Forward</b>	R	-
	<b>Brought Forward</b>	R	-

Item No		Quantity	Amount
52	Clause 4.2 - Workmanship samples F: ..... V: ..... T: .....	Item	
53	Clause 4.3 - Shop drawings F: ..... V: ..... T: .....	Item	
54	Clause 4.4 - Compliance with manufacturer's instructions F: ..... V: ..... T: .....	Item	
	<b><u>Deposits and fees (B5)</u></b>		
55	Clause 5.1 - Deposits and fees F: ..... V: ..... T: .....	Item	
	<b><u>Temporary services (B6)</u></b>		
56	Clause 6.1 - Water F: ..... V: ..... T: .....	Item	
57	Clause 6.2 - Electricity F: ..... V: ..... T: .....	Item	
58	Clause 6.3 - Two Name Boards (2) F: ..... V: ..... T: .....	Item	
59	Clause 6.4 - Ablution facilities F: ..... V: ..... T: .....	Item	
	Clause 6.5 - Site Offices, Meeting, Storage & Engineer's Office	Item	
60	Clause 6.6 - Community Liaison Officer (8) Months F: ..... V: ..... T: .....	Item	
61	Clause 8.1 - Special attendance F: ..... V: ..... T: .....	Item	

Item No		Quantity	Amount
	<b><u>General (B9)</u></b>		
62	<p>Clause 9.1 - Protection of the works</p> <p>The <b>contractor</b> shall price opposite this item for compliance with all the requirements. Refer to Scope Of Works item C.4.1.3. for details relating to protection of the works</p> <p>F: ..... V: ..... T: .....</p>	Item	
63	<p>Clause 9.2 - Protection/isolation of existing/sectional occupied works</p> <p>F: ..... V: ..... T: .....</p>	Item	
64	<p>Clause 9.3 - Security of the <b>works</b></p> <p>The <b>contractor</b> shall price opposite this item for compliance with all the requirements. Refer to Scope Of Works item C.4.1.3. for details relating to security of the works</p> <p>F: ..... V: ..... T: .....</p>	Item	
65	<p>Clause 9.4 - Notice before covering work</p> <p>F: ..... V: ..... T: .....</p>	Item	
66	<p>Clause 9.5 - Disturbance</p> <p>The <b>contractor</b> shall price opposite this item for compliance with all the requirements. Refer to Scope Of Works item C.4.1.5. for details relating to disturbance.</p> <p>F: ..... V: ..... T: .....</p>	Item	
67	<p>Clause 9.6 - Environmental disturbance</p> <p>The <b>contractor</b> shall price opposite this item for compliance with all the requirements. Refer to Scope Of Works item C.4.1.6. for details relating to environmental disturbance.</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<b>Carried Forward</b>	<b>R</b>	
	<b>Brought Forward</b>		
68	<p>Clause 9.7 - <b>Works</b> cleaning and clearing</p> <p>F: ..... V: ..... T: .....</p>	Item	

Item No		Quantity	Amount
	<b>Brought Forward</b>	R	
69	Clause 9.8 - Vermin F: ..... V: ..... T: .....	Item	
70	Clause 9.9 - Overhand work F: ..... V: ..... T: .....	Item	
	<p><b><u>Schedule of variables (B10)</u></b></p> <p>Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract</p> <p>10.1 - Provisional bills of quantities [clause 2.2]. The quantities are provisional - <b>Applicable</b></p> <p>10.2 - Availability of construction documentation [clause 2.3] Provisional construction documentation is complete - <b>Yes</b></p> <p>Construction documentation will be completed and available at the date the site is handed over to the successful contractor. The Principal Agent and Contractor shall work together and shall agree dates that are reasonable by when the contractor is to Be provided with each outstanding item of the anticipated construction documentation.</p> <p>10.3 - Previous work - dimensional accuracy [clause 3.1]</p> <p>10.4 - Previous work - defects [clause 3.2]</p> <p>10.5 - Inspection of adjoining properties [clause 3.3]</p> <p>10.6 - Water [clause 6.1.]            Option A (by contractor) - <b>Yes</b>            Option B (by employer - free of charge) - <b>No</b>            Option C (by employer - metered) - <b>No</b></p>		

Item No	Quantity	Amount
<p><i>The contractor shall install a water meter to the existing water supply at approved points and provide the Principle Agent with regular readings of water consumption at a date to be advised.</i></p> <p>10.7 - Electricity [clause 6.2.]  Option A (by contractor) - <b>Yes</b>  Option B (by employer - free of charge) - <b>No</b>  Option C (by employer - metered) - <b>No</b></p> <p><i>The contractor shall install an electrical meter to the existing electricity supply at approved points and provide the Principle Agent with regular readings of electrical consumption at a date to be advised.</i></p> <p>10.8 - Telecommunications [clause 6.3.]  Telephone - <b>Yes</b>  Facsimile - <b>No</b>  E-mail - <b>No</b></p> <p>10.9 - Ablution facilities [clause 6.4.]  Option A (by contractor) - <b>Yes</b>  Option B (by employer) - <b>No</b></p> <p>10.10 - Protection of the <b>works</b> [clause 9.1]  The <b>contractor</b> shall refer to Scope of Works item C.4.1.3. For the protection of works.</p> <p>10.11 - Protection/isolation of existing/sectional occupied <b>works</b> [clause 9.2]  Protection/isolation is required - <b>No</b></p>		
	Carried Forward	R -
Brought Forward	R	R -
10.12 - Disturbance [clause 9.5]  The <b>contractor</b> shall refer to Scope of Works item C.4.1.5. for disturbance.		

Item No		Quantity	Amount
	10.13 - Environmental disturbance [clause 9.6] The <b>contractor</b> shall refer to Scope Of Works item C.4.1.6. for environmental disturbance		
	<b><u>SECTION C - SPECIFIC PRELIMINARIES</u></b>		
71	<b>Site instructions</b>  Contract 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	
72	<b>Warranties for material and workmanship</b>  Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b> , from the firm supplying the materials and/or doing the work and shall deliver same to the <b>principal agent</b> on the <b>final completion of the contract</b> . The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of <b>final completion</b> and that any <b>defects</b> 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 to do so. The warranty will not be enforced if the work is damaged by <b>defects</b> in the construction of the building in which case the responsibility for replacement shall rest entirely with the <b>contractor</b>  F: ..... V: ..... T: .....	Item	
73	<b>Co-operation of contractor for cost management</b>		



Item No		Quantity	Amount
	<p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The <b>principal agent</b> undertakes to make available to the <b>contractor</b> all <b>budgetary allowances</b> and cost assessments/reports to enable the proper procedure to be implemented and the <b>contractor</b> shall attend all cost plan review and cost management meetings. The <b>contractor</b> undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F: ..... V: ..... T: .....</p>	Item	
74	<p><b>Propping of floors below</b></p> <p>The <b>contractor</b> is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F: ..... V: ..... T: .....</p>	Item	
75	<p><b>Testing of windows for water tightness</b></p> <p>Each window shall be tested for water tightness with water sprayed on using adequate pressure. If in the opinion of the <b>principal agent</b>, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means</p> <p>F: ..... V: ..... T: .....</p>	Item	

Item No		Quantity	Amount
	Carried Forward	R	R -
76	Brought Forward	R	
	Testing of roof waterproofing for water tightness		
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the <b>principal agent</b> , flooded with water and kept "ponded" for at least 36 hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing		
	F: ..... V: ..... T: .....	Item	
	Carried to Final Summary	R	



			Tender		
Item No			Quantity	Rate	Amount
	<u>Site clearance</u>				
1	1.1. Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	390		
	<u>1.2. Demolition (Demolition and Clearing all existing structures as per the Engineer's Instruction</u>		sum		
	<b><u>EXCAVATIONS ETC</u></b>				
	<u>Digging up topsoil</u>				
2	Digging up topsoil to an average depth of ?mm and preserving for use of filling	m2	390		
	<u>Excavation in earth not exceeding 2m deep</u>				
3	Trenches	m3	200		
	<b><u>FILLING ETC</u></b>				
	<u>Filling of natural gravel material (G7) supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
4	Over site to make up levels	m3	80		
5	Backfilling to trenches, holes, etc	m3	250		
	Carried to final summary				

Item No		Tender		
		Quantity	Rate	Amount
	<div><div><div><b>CONCRETE, FORMWORK AND REINFORCEMENT</b></div><div><div><div><u>Cost of tests</u></div><div>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</div><div><u>Formwork</u></div><div>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</div><div>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</div><div>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</div><div>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</div><div>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</div><div><b>REINFORCED CONCRETE CAST ON/IN FORMWORK</b></div><div><b>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b></div><div><u>25MPa/19mm concrete</u></div></div></div></div></div>			
23	Strip footings	m3	60	
29	Surface beds on waterproofing	m3	33	

[illegible]

		Tender		
Item No		Quantity	Rate	Amount
	<b><u>BRICKWORK</u></b>			
	<b><u>SUPERSTRUCTURE</u></b>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Half brick walls m2	385		
2	One brick walls m2	840		
	<b><u>BRICKWORK SUNDRIES</u></b>			
	<u>2,5mm Galvanised brick reinforcement</u>			
3	75mm Wide reinforcement built in horizontally m	900		
4	150mm Wide reinforcement built in horizontally m	2000		
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
5	110mm Lintels in lengths not exceeding 3m m	345		

		Carried to final summary			R	-
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		Tender		
Item No		Quantity	Rate	Amount
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls m	345		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds m2	400		

		Carried to final summary		R	-

# **BILL NO 6** **ROOF COVERINGS**

## UPGRADING OF DELARAYVILLE SPORT FACILITY

## BILL NO 5 WATERPROOFING

## UPGRADING OF DELARAYVILLE SPORTS COMPLI

			Tender		
Item No			Quantity	Rate	Amount
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>0.58mm "Cliplok" or similar approived roof sheeting fixed to timberpurlins</u>				
1	Roof covering with pitches not exceeding 25 degrees - Pavilion	m2	310		
2	Roof covering with pitches not exceeding 25 degrees - Hall	m2	260		

ROOF COVERINGS

		Carried to final summary			R	-
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		Tender		
Item No		Quantity	Rate	Amount
<b><u>STRUCTURAL TIMBERWORK ETC</u></b>				
1	Supply and install roof truss system, including roof rixing purlines (sheeting measured elsewhere) for Multi-Purpose Building as per 18007-0002			
	Sum	1		
2	Supply and install roof truss system, including roof rixing purlines (sheeting measured elsewhere) for Gatehouse as per 18007-0003			
	Sum	1		
<b><u>FLOORS AND SKIRTINGS</u></b>				
<b><u>SKIRTINGS</u></b>				
<u>Wrought meranti</u>				
3	75 x 12mm Skirtings	m	200	
4	20 x 20mm Skirtings including ?mm quadrant bead, nailed	m	200	
<b><u>TIMBER DOORS, WINDOWS, ETC</u></b>				
<b><u>DOORS ETC</u></b>				
<u>Hollow core flush doors with commercial veneer, hung to steel frames</u>				
5	40mm Door 2100 x 850mm high	No	30	
6	40mm Double door 2100 x 1500mm high with rebated (flush?) meeting edges	No	6	
<b><u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u></b>				
7	Kitchen Cupboards for Multi-Purpose Building	Sum	2	
8	Carpentry for changes rooms	Sum	2	
Carried to final summary				

			Tender		
Item No			Quantity	Rate	Amount
	<b><u>NAILED-UP CEILINGS</u></b>				
	<u>6,4mm Gypsum plasterboard with H-profile galvanised steel jointing strips</u>				
1	Ceilings including standard steel brandering at 500mm centres in one direction only	m2	385		
	<u>Gypsum plasterboard cornices</u>				
2	75mm Coved cornices	m	250		

		Carried to final summary			

ITEM NO	Quantity	Rate	Amount
<b><u>STRUCTURAL STEELWORK</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			



<p><i>Consideration is to be given in specific applications (e.g. where "heavy" steel structures such as in industrial plants, towers for mine shafts, etc are dominant) to implement the principles laid down by the "Measurement for Structural Steelwork" as prepared and recommended by the South African Institute of Steel Construction or any other appropriate principles This bill is, however, based on the building work measuring system</i></p> <p><i>Finishing-off painting is to be included in this trade only when the structural steel contractor is required to execute the work</i></p> <p><u>Descriptions</u></p> <p><u>Descriptions of bolts shall be deemed to include nuts and washers</u></p> <p><u>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</u></p> <p><u>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</u></p> <p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>User note</u></p>				
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	<u>In the event of there being only a limited number of different heights or lengths of columns or beams, the specific heights or lengths may be given separately or may be suitably grouped together</u>				
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>				
1	<u>246X147mm x 37kg/m I-section</u>	t	10.8	R	-
	<u>STEEL TRUSSES</u>				
	<u>STEEL TRUSSES</u>				
	<u>Welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel</u>				
36	<u>Truss 2 (No 12 )</u>	t	2.4	R	-
37	<u>Truss 3 (No 2)</u>	t	0.4	R	-
	<u>STEEL PURLINS, GIRTS, BRACING, ETC</u>				
	<u>Purlins and girts, bolted to steel</u>				
42	<u>125 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins</u>	t	1.5	R	-
	<u>Welded bracing, anti-sag rails, etc with flat connection plates, bolted to steel</u>				
45	<u>Angle bracing</u>	t	0.8	R	-
	<u>Carried to final summary</u>			R	-

		Tender		
Item No		Quantity	Rate	Amount
	<b><u>LOCKS</u></b>			
	<u>Keys</u>			
	Unless otherwise described locks shall have two keys each			
	<b><u>EN-SUITE LOCKS</u></b>			
	The following locks are to be suitable for master and grand master key operation			
1	Three-lever rebated lockset	No	35	
2	Master key	No	5	
	<b><u>FIRE SIGNAGE</u></b>			
	Signage to SANS standards for all fire requirements.			
3	Supply, delivery and installation of a wall mounted single sided 150mm module Green Photo Luminescent E3 Fire Escape sign	No	4	
4	Supply, delivery and installation of a wall mounted single sided 150mm module Red Photo Luminescent F4 Fire Extinguisher sign	No	12	
5	Supply, delivery and installation of a wall mounted single sided 150mm module Red Photo Luminescent F13 Fire Hose Reel Extinguisher sign	No	3	
	Carried to final summary			