

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 1</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	All prices/rates to be net, excluding Value Added Tax			
	<b><u>General</u></b>			
	i) The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005			
	ii) The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, March 2005 edition and shall be deemed to be incorporated herein			
	iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
	iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time</p> <p>vii) Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><b><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>Definitions (A1)</u></b></p> <p>1 Definitions and interpretation (clause 1)</p> <p>Clause 1.1 Definition of "<b>Agreement</b>" is amended by replacing it with the following:</p> <p><b>Agreement</b> means the agreement arising from the signing of the Form of Offer and Acceptance by the parties.</p> <p>Clause 1.1 Definition of "<b>Bills of Quantities</b>" is amended by adding the following:</p> <p>"...and the Pricing Instructions contained in the Pricing Data" after the word measuring system.</p> <p>Clause 1.1 Definition of "<b>Contract Documents</b>" is amended by adding the following:</p> <p>".....this Agreement and all other documents referenced therein.." after the word this document"</p> <p>Clause 1.1 Definition of "<b>Contract Drawings</b>" is amended by replacing it with the following:</p> <p><b>Contract Drawings</b> means the drawings upon which the tender was accepted and used in preparing the bills</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>of quantities and are available for viewing at the offices of the Principal Agent at the time of tender</p> <p>Clause 1.1 Definition of "<b>Contract Sum</b>" is amended by replacing it with the following:</p> <p><b>Contract Sum</b> means the total of prices in the Form of Offer and Acceptance.</p> <p>Clause 1.1 Definition of "<b>Schedule</b>" is amended by adding the following:</p> <p>".....and in the <b>Contract Data</b>". at the end on the sentence ending with <b>agreement</b></p> <p>Clause 1.1 Definition of "<b>Commencement Date</b>" is added:</p> <p><b>"Commencement date"</b> means the date that the <b>agreement</b>, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "<b>Construction Guarantee</b>" is amended by replacing it with the following:</p> <p><b>"Construction guarantee"</b> means guarantee at call obtained by the <b>contractor</b> from an institution approved by the <b>employer</b> in terms of the <b>employer's</b> construction guarantee form as selected in the <b>schedule</b></p> <p>Clause 1.1 Definition of "<b>Construction Period</b>" is amended by replacing it with the following:</p> <p><b>"Construction period"</b> means the period commencing on the commencement date and ending on the date of practical completion</p> <p>Clause 1.1 Definition of "<b>Corrupt Practice</b>" is added:</p> <p><b>"Corrupt Practice"</b> means the offering , giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p>	<p style="text-align: center;">R</p>
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<b>Brought Forward</b>		R	
<p>Clause 1.1 Definition of "<b>Fraudulent Practice</b>" is added:</p> <p><b>"Fraudulent Practice"</b> means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.</p> <p>Clause 1.1 Definition of "<b>Interest</b>" is amended by replacing it with the following:</p> <p><b>"Interest"</b> means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).</p> <p>Clause 1.1 Definition of "<b>Principal Agent</b>" is amended by replacing it with the following:</p> <p><b>"Principal Agent"</b> means the person or entity appointed by the <b>employer</b> and named in the <b>schedule</b>. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by a representative of the <b>employer</b> as named in the <b>schedule</b>.</p> <p>Clause 1.1 Definition of "<b>Security</b>" is amended by replacing it with the following:</p> <p><b>Security</b>" means the form of security provided by the <b>employer</b> or <b>contractor</b>, as stated in the <b>schedule</b>, from which the <b>contractor</b> or <b>employer</b> may recover expense or loss</p>			
Fixed			Item
Value Related			Item
<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
	Time Related	Item		
	<b><u>Objective and Preparation (A2 - A14)</u></b>			
2	Offer, acceptance and performance (clause 2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
3	Documents (clause 3)			
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	<b>The contractor</b> shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract <b>on the site</b> , to which <b>the employer, principal agent and agents</b> shall have access at all times.			
	Clause 3.10 is amended by replacing the second reference to " <b>principal agent</b> " with the word " <b>employer</b> "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
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Brought Forward			R
5	Employer's agents (clause 5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
6	Contractor's site representative (clause 6)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
7	Compliance with laws and regulations (clause 7)		
	Note: A separate clause has been included in Section C: Specific Preliminaries of the <b>bills of quantities</b> for the <b>contractor</b> to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
8	Works risk (clause 8)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
Carried Forward			R
Prepared by Mgiba Consulting			

	<b>Brought Forward</b>			R	
9	Indemnities (clause 9)				
	Clause 9.0 is amended by adding Clause 9.1.4:				
	The <b>contractor</b> indemnifies and holds harmless the <b>employer</b> against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the <b>contractor</b> , but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the <b>contractor</b> in the price and shall be paid by him to those to whom they may be payable. The <b>contractor</b> shall reimburse the <b>employer</b> for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the <b>employer</b> in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the <b>employer</b> is a party.				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
10	Works insurances (clause 10)				
	Clause 10.0 is amended by the addition of the following clauses				
	<b>10.5 Damage to the Works</b>				
	(a) Without in any way limiting the <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall bear the full risk of damage to and/or destruction of the <b>works</b> by whatever cause during construction of the <b>works</b> and hereby indemnifies and holds harmless the				
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<p style="text-align: center;"><b>Brought Forward</b></p> <p><b>employer</b> against any such damage. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection and security of the <b>works</b> as the <b>contractor</b> may deem necessary</p> <p>b) The <b>contractor</b> shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b></p> <p>(c) The <b>employer</b> shall carry the risk of damage to or destruction of the <b>works</b> and material paid for by the <b>employer</b> that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the <b>employer</b> bears the risk in terms of this contract, the <b>contractor</b> shall, if requested to do so, reinstate any damage or destroyed portions of the <b>works</b> and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p><b>10.6 Injury to Persons or loss of or damage to Properties</b></p> <p>(a) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the <b>works</b> unless due to any act or neglect of any person for whose actions the <b>employer</b> is legally liable</p> <p>(b) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person, arising out of or in the course of or by reason of the execution of the <b>works</b> unless due to any</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: center;"><b>Brought Forward</b></p> <p>act or neglect of any person for whose actions the <b>employer</b> is legally liable</p> <p>c) The <b>contractor</b> shall, upon receiving a <b>contract instruction</b> from the <b>principal agent</b>, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the <b>employer</b> shall be entitled to cause it to be made good and to recover the cost thereof from the <b>contractor</b> or to deduct the same from amounts due to the <b>contractor</b></p> <p>(d) The <b>contractor</b> shall be responsible for the protection and safety of such portions of the premises placed under his control by the <b>employer</b> for the purpose of executing the <b>works</b> until the issue of the <b>certificate of practical completion</b></p> <p>(e) Where the execution of the <b>works</b> involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the <b>contractor</b> shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the <b>works</b> has been completed</p> <p>(f) The <b>contractor</b> shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the <b>works</b></p> <p><b>10.7 High risk insurance</b></p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><b>10.7.1 Damage to the works</b></p> <p>The <b>contractor</b> shall, from the commencement <b>date</b> of the <b>works</b> until the date of the <b>certificate of practical completion</b> bear the full risk of and hereby indemnifies and holds harmless the <b>employer</b> against any damage to and/or destruction of the <b>works</b> consequent upon a catastrophic ground movement as mentioned above. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection of the <b>works</b> as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor</p> <p><b>10.7.2 Injury to persons or loss of or damage to property</b></p> <p>The <b>contractor</b> shall be liable for and hereby indemnifies and holds harmless the <b>employer</b> against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p><b>10.7.3</b> It is the responsibility of the <b>contractor</b> to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the <b>contractor's</b> obligations in terms of the</p>	<p style="text-align: center;">R</p>
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	contract, the <b>contractor</b> shall, within twenty-one (21) <b>calendar days</b> of the <b>commencement date</b> but before commencement of the <b>works</b> , submit to the <b>employer</b> proof of such insurance policy, if requested to do so				
	<b>10.7.4</b> The <b>employer</b> shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the <b>contractor's</b> default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the <b>contractor</b> or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the <b>employer</b> and the <b>contractor</b> and for this purpose all these contracts shall be considered one indivisible whole				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
11	Liability insurances (clause 11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
12	Effecting insurances (clause 12)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
13	No clause (clause 13)				
			Item		
	<b>Carried Forward</b>			R	
	<b>Prepared by Mgiba Consulting</b>				

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Item

-12-

Brought Forward		R
<b><u>Execution (A15 - A23)</u></b>		
15	Preparation for and execution of the works (clause 15)	
	Clause 15.1.1 is amended by replacing it with:	
	No clause	
	Clause 15.1.2 is amended by replacing it with:	
	The <b>security</b> selected in terms of 14.0	
	Clause 15.1 is amended by the addition of the following clause:	
	15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) or latest edition, revision and amendments, within twenty-one (21) <b>calendar days</b> of <b>commencement date</b>	
	Clause 15.2.1 is amended by replacing it with the following clause:	
	Give the <b>contractor</b> possession of the <b>site</b> within ten (10) <b>working days</b> of the <b>contractor</b> complying with the terms of 15.1	
	Fixed	Item
	Value Related	Item
	Time Related	Item
16	Access to the works (clause 16)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
Carried Forward		R
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Brought Forward		R
17	Contract instructions (clause 17)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
18	Setting out of the works (clause 18)	
	<p><b><i>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</i></b></p> <p><b><i>The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.</i></b></p>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
19	Assignment (clause 19)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
Carried Forward		R
Prepared by Mgiba Consulting		

	<b>Brought Forward</b>		R	
20	Nominated sub-contractors (clause 20)			
	Clause 20.0			
	Clause 20.1.3 is amended by replacing it with the following:			
	No Clause			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
21	Selected sub-contractors (clause 21)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
22	Employer's direct contractors (clause 22)			
	<i>The Contractor shall allow the direct contractors and employers agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

		<b>Brought Forward</b>		R	
23	Contractor's domestic sub-contractors (Clause 23)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<b><u>COMPLETION</u></b>				
	<b><u>Completion (A24-A30)</u></b>				
24	Practical completion (clause 24)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
25	Works completion (clause 25)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
26	Final completion (clause 26)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
27	Latent defects liability period (clause 27)				
		Fixed	Item		
		Value Related	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				



	<b>Brought Forward</b>		R	
	Time Related	Item		
28	Sectional completion (clause 28)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
29	Revision of date of practical completion (clause 29)			
	Clause 29.1.1 shall be deemed to be omitted and replaced by the following:			
	Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project			
	It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above			
	Add Clause 29.9 as follows:			
	Revision to the date for <b>practical completion</b> shall only be considered when work on the critical path of the agreed programme for the works is delayed."			
	Add Clause 29.10 as follows:			
	Clause 29.10 - Acceleration			
	Clause 29.10.1			
	Irrespective of whether or not the <b>principal agent</b> rules that the <b>contractor</b> is entitled to an extension of time or a revision of the date for <b>practical completion</b> , the <b>principal agent</b> shall nevertheless, at any time, be entitled to instruct the <b>contractor</b> in writing to accelerate the			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

		<b>Brought Forward</b>			R
		progress of the remaining <b>works</b> to ensure that the <b>works</b> are completed by the original date for <b>practical completion</b> or revised date as the case may be.			
		Clause 29.10.2 Upon receipt of such instruction, the <b>contractor</b> shall take all necessary steps to ensure that the <b>works</b> are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The <b>contractor</b> shall prove that such steps are being taken if called upon to do so.			
		Clause 29.10.3 The <b>contractor's</b> entitlement to compensation arising out of or in respect of any revision to the date for <b>practical completion</b> that may have been granted by the <b>principal agent</b> or alternatively where the <b>principal agent</b> has instructed the <b>contractor</b> to accelerate, shall be adjudicated strictly in terms of clause 32.			
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
30	Penalty for non-completion (clause 30)				
	Clause 30 is amended by replacing reference to 36.3 at end of sentence with 36.0				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b>Carried Forward</b>			R
	<b>Prepared by Mgiba Consulting</b>				

Brought Forward			R
<b><u>Payment (A31 - A35)</u></b>			
31	Interim payment to the contractor (clause 31)		
	Clause 31.9 is amended by replacing "seven (7) <b>calender</b> days" with "thirty (30) <b>calender</b> days" and by deleting the words "subject to the <b>contractor</b> giving the <b>employer</b> a tax invoice for the amount due		
	Clause 31.12 is amended by deleting the following		
	Payment shall be subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
32	Adjustment to the contract value (clause 32)		
	Clause 32.0		
	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:		
	"due to no fault of the <b>contractor</b> "		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
33	Recovery of expense and loss (clause 33)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
Carried Forward			R
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Brought Forward			R
34	Final account and final payment (clause 34)		
	Clause 34.0		
	Clause 34.2 is amended by inserting # next to 34.2		
	Clause 34.13 is amended by replacing "seven (7) <b>calendar days</b> " with "thirty (30) <b>calendar days</b> " and deleting the words "subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
35	Payment to other parties (clause 35)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
Carried Forward			R
Prepared by Mgiba Consulting			

	<b>Brought Forward</b>		R	
	<b><u>Cancellation (A36-A39)</u></b>			
36	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>Clause 36.1 is amended by the additions of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the <b>employer</b>, has engaged in <b>corrupt</b> or <b>fraudulent practices</b> in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "<b>principal agent</b>" with "<b>employer</b>"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	<b>Brought Forward</b>			R	
37	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>		<p>Item</p> <p>Item</p> <p>Item</p>		
38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>38.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p style="text-align: right;">Fixed</p>		<p>Item</p>		
	<b>Carried Forward</b>			R	
	<b>Prepared by Mgiba Consulting</b>				

		<b>Brought Forward</b>		R	
		Value Related	Item		
		Time Related	Item		
39	Cancellation - cessation of the works (clause 39)				
	Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one-hundred and twenty (120) <b>working days</b> of completion of such report"				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<b><u>Dispute Settlement (A40)</u></b>				
40	Disputes Settlement (clause 40)				
	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"				
	Clause 40.6 is amended by removing the reference to:				
	No clause				
	Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:				
	Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs.				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<b><u>State Provision (A41)</u></b>				
41	State Substitutions (clause 41)				
	<b>Carried Forward</b>			R	
	<b>Prepared by Mgiba Consulting</b>				

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following:</p> <p>40.1 Should any dispute between the <b>employer</b>, his <b>agents</b> or <b>principal agent</b> on the one hand and the contractors on the other arise out of this <b>agreement</b>, such dispute shall be referred to adjudication.</p> <p>40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The <b>adjudicator</b> shall be appointed in terms of the Adjudicators Agreement set out in C1.4 .</p> <p>40.3 If provided in the <b>schedule</b>, a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa).Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set</p>	<p style="text-align: center;">R</p>
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Prepared by Mgiba Consulting</p>	<p style="text-align: center;">R</p>



	<b>Brought Forward</b>			R	
	out the facts and the provisions of the contract on which his award is based.				
	40.4 If the <b>schedule</b> provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<b><u>Contract Variables (A41)</u></b>				
42	The Schedule (clause 42)				
	<i><b>Tenderers are referred to the Contract Data and Notes to Tenderes for variable pertaining to this contract</b></i>				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<b><u>SECTION B: PRELIMINARIES</u></b>				
	<b><u>Definition and interpretation (B1)</u></b>				
43	Definition and interpretation				
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<b>Carried Forward</b>			R	
	<b>Prepared by Mgiba Consulting</b>				

	<b>Brought Forward</b>		R	
	<b><u>Documents (B2)</u></b>			
44	Checking of documents (B2.1)			
	<b><i>These bills of quantities:</i></b>			
	<b><i>(1) contain pages and annexes as indexed, and;</i></b>			
	<b><i>(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances</i></b>			
	<b><i>Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</i></b>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
45	Provisional bills of quantities (B2.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
46	Availability of construction documentation (B2.3)			
	<b><i>The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period</i></b>			
	Fixed	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

		<b>Brought Forward</b>		R	
		Value Related	Item		
		Time Related	Item		
47	Interests of agents (B2.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
48	Priced documents (B2.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
49	Tender submission (B2.6)				
	<b><i>Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders</i></b>				
	<b><i>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"</i></b>				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<b><u>The site (B3)</u></b>				
50	Defined works area (B3.1)				
		Fixed	Item		
		Value Related	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

Brought Forward			R
	Time Related	Item	
51	Geotechnical investigation (B3.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
52	Inspection of the site (B3.3)		
	<p><b><i>Tenderers are instructed to familiarise themselves before submission of their tender with regard to the relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.</i></b></p> <p><b><i>No claims for extras arising from the contractor having failed to comply with this clause will be entertained</i></b></p>		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
53	Existing premises occupied (B3.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
Carried Forward			R
Prepared by Mgiba Consulting			

	<b>Brought Forward</b>		R	
54	Previous work - dimensional accuracy (B3.5)			
	<i>Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
55	Previous work - defects (B3.6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
56	Services - known (B3.7)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
57	Services - unknown (B3.8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
58	Protection of trees, etc (B3.9)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

[illegible]

<p style="text-align: center;"><b>Brought Forward</b></p> <ol style="list-style-type: none"> <li>1. Shall be prepared and drawn up to comply in all respects with the requirements of this Agreement.</li> <li>2. shall be drawn up using logic developed during the tender period and complies with the planning requirements of the Client.</li> <li>3. shall be in accordance with the dates given herein for possession and practical completion; and</li> <li>4. shall be in sufficient and approved detail to ensure effective control of the work, including all items necessary to enable calculations to be made for the distribution of finance during the cashflow analysis.</li> <li>5. shall be accompanied by a full written method statement</li> </ol> <p>The principal agent shall examine and comment on the contract programme and method statement within two weeks of its submission.</p> <p>Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter.</p> <p>The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand.</p> <p>The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy of validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement.</p> <p>No policy decisions other than the planning requirements, procedures and policies provided, will be</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information.</p> <p>Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and quality the submission accordingly.</p> <p>Development of the contract programme and method statement</p> <p>Within two weeks of award of the contract, the contractor shall submit an updated contract programme and written method statement which shall include the latest information in sufficient detail to permit comprehensive monitoring.</p> <p>Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring.</p> <p>Revisions to the contract programme</p> <p>Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.</p> <p>Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes.</p> <p>A revision to the programme will not invalidate the contractual completion dates and applications for extensions of time will be processed by the principal agent in accordance with the conditions of contract.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p>
	R



<b>Brought Forward</b>	R	
<p>Should the contractor fail to submit a request for revision to the construction programme , progress monitoring shall be based on the latest revised programme sanctioned by the principal agent.</p> <p>The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner.</p> <p>Progress Monitoring</p> <p>The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.</p> <p>The status of each activity must also be reported as follows:</p> <p>Target - If the activity is not complete, the latest predicted completion date shall be supplied.</p> <p>Start - If the activity has commenced, the actual date shall be supplied.</p> <p>Finish - If the activity is complete, the actual completion date shall be supplied.</p> <p>Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report.</p> <p>Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase the extent or the detail of the programme.</p> <p>The principal agent may recommend action to be taken</p>		
<b>Carried Forward</b>	R	
<b>Prepared by Mgiba Consulting</b>		

<p style="text-align: center;"><b>Brought Forward</b></p> <p>by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement.</p> <p>Extension of time</p> <p>Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into account when granting any extension of time in terms of the conditions of contract.</p> <p>The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the foregoing principle it is provide that:</p> <ol style="list-style-type: none"> <li>1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and</li> <li>2. Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date.</li> <li>3. The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any revision of a programme by the principal agent in the foregoing terms, practical completion and completion of the works shall take place</li> </ol> <p style="text-align: center;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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	<b>Brought Forward</b>		R	
	strictly in accordance with this Agreement.			
	A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever.			
	The contractor acknowledges that the principal agent's foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
63	Progress meetings (B4.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
64	Technical meetings (B4.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
65	Labour and plant records (B4.5)			
	Fixed	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

		<b>Brought Forward</b>		R	
		Value Related	Item		
		Time Related	Item		
		<b><u>Samples, shop drawings and manufacturer's instructions (B5)</u></b>			
66	Samples of materials (B5.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
67	Workmanship samples (B5.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
68	Shop drawings (B5.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
69	Compliance with manufacturer's instructions (B5.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

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		<b>Brought Forward</b>		R	
		<b><u>Temporary works and plant (B6)</u></b>			
70	Deposits and fees (B6.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
71	Enclosure of the works (B6.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
72	Advertising (B6.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
73	Plant, equipment, sheds and offices (B6.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
74	Main notice board (B6.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

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		<b>Brought Forward</b>		R	
75	Subcontractors notice board (B6.6)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<b><u>Temporary services (B7)</u></b>				
76	Location (B7.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
77	Water (B7.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
78	Electricity (B7.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
79	Telecommunication facilities (B7.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

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		<b>Brought Forward</b>		R	
80	Ablution facilities (B7.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b><u>Prime cost amounts (B8)</u></b>			
81	Responsibility for prime cost amounts (B8.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<b><u>Attendance on nominated and selected subcontractors (B9)</u></b>			
82	General attendance (B9.1)				
	The schedule rates providing for attendance on <b>nominated subcontractors</b> and other <b>contractors</b> , will be adjusted only if the scope of the work has changed				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
83	Special attendance (B9.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
84	Commissioning - Fuel, water and electricity (B9.3)				
		Fixed	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

	<b>Brought Forward</b>		R	
	Value Related	Item		
	Time Related	Item		
	<b><u>Financial aspects (B10)</u></b>			
85	Statutory taxes, duties and levies (B10.1)			
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
86	Payment of preliminaries (B10.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
87	Adjustment of preliminaries (B10.3)			
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) <b>working days</b> of taking possession of the <b>site</b> " with "when submitting his priced <b>bills of quantities</b> "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
88	Payment certificate cash flow (B10.4)			
	Fixed	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



		<b>Brought Forward</b>		R	
		Value Related	Item		
		Time Related	Item		
		<b><u>General (B11)</u></b>			
89	Protection of works (B11.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
90	Protection/isolation of existing/sectionally occupied works(B11.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
91	Site security (B11.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
92	Notice before covering work (B11.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
93	Disturbance (B11.5)				
		Fixed	Item		
		<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>				

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		Brought Forward		R
		Value Related	Item	
		Time Related	Item	
94	Enviromental disturbance (B11.6)			
		Fixed	Item	
		Time Related	Item	
		Value Related	Item	
95	Works cleaning and clearing (B11.7)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
96	Vermin (B11.8)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
97	Overhand work (B11.9)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
98	Instruction manuals and guarantees (B11.10)			
		Fixed	Item	
		Value Related	Item	
		Carried Forward		R
Prepared by Mgiba Consulting				

Brought Forward		R
	Time Related	Item
99	As built information (B11.11)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
100	Tenant installations (B11.12)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
	<b><u>Schedule of variables (B12)</u></b>	
101	Pre-tender information (B12.1)	
	This <b>schedule</b> contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these <b>Preliminaries</b> .	
	Fixed	Item
	Value Related	Item
	Time Related	Item
12.1.1	<b>Provisional bills of quantities (B12.1.1)</b>	
	The quantities are provisional:	
	<b>Yes</b>	
	<b>Carried Forward</b>	R
	<b>Prepared by Mgiba Consulting</b>	

<b>Brought Forward</b>	R
<p>12.1.2 <b>Availability of construction documentation (B12.1.2)</b></p> <p>Construction documentation is complete:</p> <p style="text-align: right;"><b>Yes</b></p>	
<p>12.1.3 <b>Interest of agents (B12.1.3)</b></p> <p style="text-align: right;"><b>No</b></p>	
<p>12.1.4 <b>Defined works area (B12.1.4)</b></p> <p><i>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site</i></p>	
<p>12.1.5 <b>Geotechnical investigation (B12.1.5)</b></p> <p>The geotechnical report is available for viewing at the offices of the Principal Agent</p> <p style="text-align: right;"><b>No</b></p>	
<p>12.1.6 <b>Existing premises occupied (B12.1.6)</b></p> <p>[3.4] Specific requirements: The contractor shall execute the works with as little noise and disturbance as possible. The contractor shall comply with the school calendar and/or program</p>	
<p>12.1.7 Previous work - Dimensional accuracy (B12.1.7)</p> <p>[3.5] Details: No additional details</p> <p style="text-align: right;"><b>No</b></p>	
<p>12.1.8 <b>Previous work - defects</b></p> <p>[3.6] Details: No additional details</p>	
<b>Carried Forward</b>	R
<p><b>Prepared by Mgiba Consulting</b></p>	

<b>Brought Forward</b>	R
12.1.9 Services - known (B12.1.9)	
<i>Existing services and points of connection are shown on the site plan and/or will be pointed out on site by the principal agent</i>	
12.1.10 <b>Protection of trees</b>	
[3.9] Specific requirements: No trees to be damaged or removed except those specifically designated in writing by the Architect	
12.1.11 <b>Inspection of adjoining properties</b>	
[3.11] Specific requirements: None	
12.1.12 <b>Enclosure of the works</b>	
[6.2} Specific requirements: Areas where work is taking place shall at all times be blocked off by appropriate means	
12.1.13 <b>Offices</b>	
[6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works a site office to provide space for site managers and administrators, site meetings and storage. The site office must be comfortable, attractive and versatile with a floor space of no less 24m <sup>2</sup> . It must be formed with solid walls, a solid boarded floor and roof. The office must be well ventilated with windows and thermal control. It must be fitted with electric lighting and power supply. It must be furnished with a table, chairs, drawing board and lock-up drawers. The site office must comply to Occupational Health and Safety regulations. The office shall be kept clean and fit for use at all times.	
<b>Carried Forward</b>	R
<b>Prepared by Mgiba Consulting</b>	

<b>Brought Forward</b>	R
<p><b>12.1.14 Main notice board</b></p> <p>[6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering. <b>YES</b></p>	
<p><b>12.1.15 Subcontractors' notice board</b></p>	
<p>[6.6] A notice board is required <b>NO</b></p> <p>Specific requirements:</p>	
<p><b>12.1.16 Water</b></p>	
<p>[7.2] Option A (by <b>contractor</b>) <b>Yes</b></p>	
<p><b>12.1.17 Electricity</b></p>	
<p>[7.3] Option A (by <b>contractor</b>) <b>Yes</b></p>	
<b>Carried Forward</b>	R
<p><b>Prepared by Mgiba Consulting</b></p>	

Brought Forward			R
12.1.18 <i>Telecommunications</i>			
[7.4]	Telephone	Yes	
	Facsimile	Yes	
	E-mail	Yes	
12.1.19 <i>Ablution facilities</i>			
[7.5]	Option A (by <b>contractor</b> )	Yes	
	Option B (by <b>employer</b> )	No	
12.1.20 <i>Protection of existing/sectionally occupied works</i>			
[11.2]	Protection is required	Yes	
12.1.21 <i>Special attendance</i>			
	The contractor must obtain information from all subcontractors at tender stage regarding special attendance that might be required and make allowance for each and every subcontract that requires special attendance		
[9.2]	<b>Subcontractor</b> (1) Details:		
	<b>Subcontractor</b> (2) Details:		
	<b>Subcontractor</b> (3) Details:		
Carried Forward			R
Prepared by Mgiba Consulting			

<p style="text-align: right;"><b>Brought Forward</b></p> <p>12.1.22 <b>Protection of the works</b></p> <p>[11.1] Specific requirements: All work that requires protection during construction must be adequately protected up to practical completion by the <b>contractor</b></p> <p>12.1.23 <b>Security</b></p> <p>[11.3] Specific requirements: The <b>contractor</b> shall provide 24 hours security</p> <p>12.1.24 <b>Disturbance</b></p> <p>[11.5] Specific requirements: The <b>contractor</b> shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the <b>works</b> all necessary temporary dust screens all to the satisfaction of the <b>principal agent</b></p> <p>12.1.25 <b>Environmental disturbance</b></p> <p>[11.6] Specific requirements: None</p> <p>12.1.26 <b>Progress meetings</b></p> <p>[18.63] Specific requirements: The <b>contractor</b> shall provide for refreshments and food during progress meetings (catering of meals to be out sourced to a local service provider)</p>	<p style="text-align: center;">R</p>
<p style="text-align: right;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: center;">R</p>



		<b>Brought Forward</b>			R
	12.1.27 Technical				
	[18.64] Specific requirements: The <b>contractor</b> shall provide for refreshments and food during technical meetings (catering of meals to be out sourced to a local service provider)				
102	Post-tender information (B12.2)				
	<b>All post-tender information for this section will be determined once tender is awarded</b>				
		Fixed		Item	
		Value Related		Item	
		Time Related		Item	
	12.2.1 <b>Payment of preliminaries</b>				
	[10.2] Option A (prorated)	<b>No</b>			
	Option B (calculated)	<b>Yes</b>			
	12.2.2 <b>Adjustment of preliminaries</b>				
	[10.3] Option A (three categories)	<b>Yes</b>			
	Option B (detailed breakdown)	<b>No</b>			
	12.2.3 <b>Additional agreed preliminaries items</b>				
	Details: None				
		<b>Carried Forward</b>			R
	<b>Prepared by Mgiba Consulting</b>				

	<b>Brought Forward</b>		R	
103	Other post tender information (B12.3)			
	<i><b>All post-tender information for this section will be determined once tender is awarded</b></i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>			
	<b>Section C</b> contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item			
104	<b>Clause C1 - Contract drawings</b>			
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the <b>works</b> and the manner in which they are to be executed			
	Should any part of the drawings not be clearly understood by the the tenderer he shall, before submitting his tender, obtain clarification in writing from the <b>principal agent</b>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	<b>Brought Forward</b>		R	
105	<b>Clause C2 - General Preambles</b>			
	The "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades is deemed to be included herein and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
106	<b>Clause C3 - Site instructions</b>			
	All contract instructions issued on site shall be recorded immediately in the site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only			
	Site instructions may be issued by the principal or any of the consultants only. Copies of the site instructions are to be submitted to the principal agent and quantity surveyor within seven (7) calendar days of such recording in the site instruction book			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	Brought Forward		R
107	<p><b>Clause C4 - Trade Names</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities</b>, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the <b>principal agent</b> being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <div style="text-align: right;">Fixed                  Item</div> <div style="text-align: right;">Value Related        Item</div> <div style="text-align: right;">Time Related          Item</div>		
108	<p><b>Clause C5 - Overtime</b></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 authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer</p> <div style="text-align: right;">Fixed                  Item</div> <div style="text-align: right;">Value Related        Item</div> <div style="text-align: right;">Time Related          Item</div>		
109	<p><b>Clause C6 - As-built drawings</b></p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records</p> <div style="text-align: right;">Fixed                  Item</div>		
	Carried Forward		R
	Prepared by Mgiba Consulting		

	<b>Brought Forward</b>		R	
	Value Related	Item		
	Time Related	Item		
110	<b>Clause C5 - Labour record</b>			
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
111	<b>Clause C6 - Plant record</b>			
	At the end of each calendar 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, currently used on the works			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
112	<b>Clause C7 - Non-cession of monies</b>			
	The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	<b>Brought Forward</b>		R	
113	<p><b>Clause C8 - Occupational Health and Safety Act</b></p> <p>The <b>contractor</b> 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 <b>contractor</b> to thoroughly study the <b>latest</b> Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b>.</p> <p>The <b>contractor</b> 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 <b>principal agent</b>, 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 <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements(including notification to the Department of labour, medical examinations, PPE compliance, etc) of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	<b>Brought Forward</b>		R	
114	<b>Clause C9 - Viewing of the school areas</b>			
	The <b>site</b> is situated in a school area and the tenderer must arrange with the Principal or other responsible school staff to obtain permission to enter the <b>site</b> for tendering purposes			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
115	<b>Clause C10 - Commencement of Works in School Areas</b>			
	As the <b>works</b> falls within a school area the <b>contractor</b> must give the Principal or other responsible staff member notice before commencement of the <b>works</b> . Should the <b>contractor</b> fail to make such arrangements, admission to the <b>site</b> may be refused and any additional costs will be for the <b>contractor's</b> account			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
116	<b>Clause C11 - Entrance Permits to School Areas</b>			
	As the <b>works</b> falls within a school area the <b>contractor</b> shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Principal, or chief security officer			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	Brought Forward		R
117	<p><b>Clause C12 - Security Check of Personnel</b></p> <p>The <b>principal agent</b> may require the <b>contractor</b> to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the <b>principal agent</b> requesting the removal of a person or persons from the <b>works</b> for security reasons, the <b>contractor</b> shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the <b>works</b> and the <b>site</b> and/or to any document or information relating to the <b>works</b></p> <div style="text-align: right; margin-right: 100px;">Fixed</div> <div style="text-align: right; margin-right: 100px;">Value Related</div> <div style="text-align: right; margin-right: 100px;">Time Related</div>	Item  Item  Item	
	Carried Forward		R
	Prepared by Mgiba Consulting		



	<b>Brought Forward</b>		R	
118	<b>Clause C13 - HIV/Aids Awareness</b>  It is required of the <b>contractor</b> 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 <b>bills of quantities</b> . Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained  The <b>contractor</b> must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b> , 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 <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment  <div style="text-align: right;">Fixed</div> <div style="text-align: right;">Value Related</div> <div style="text-align: right;">Time Related</div>	<div style="text-align: right;">Item</div> <div style="text-align: right;">Item</div> <div style="text-align: right;">Item</div>		
119	<b>Clause C13.1 - Awareness Champion</b>  Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification  <div style="text-align: right;">Fixed</div> <div style="text-align: right;">Value Related</div> <div style="text-align: right;">Time Related</div>	<div style="text-align: right;">Item</div> <div style="text-align: right;">Item</div> <div style="text-align: right;">Item</div>		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	<b>Brought Forward</b>		R	
120	<b>Clause C13.2 - Awareness Workshop</b>			
	Selection and appointment of a competent Service Provider approved by the <b>principal agent</b> , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
121	<b>Clause C13.3 - Posters, booklets, videos, etc.</b>			
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b> , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
122	<b>Clause C13.4 - Access to Condoms</b>			
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the <b>construction period</b> , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - EXISTING TOILETS</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>Demolishing and removing</u></b>			
1	Single storey six seats pit latrine block 9300 x 4200mm x 2500mm high at eaves comprising concrete surface bed, 220mm external walls, 110 internal walls and corrugated iron roof covering on timber trusses	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	Brought Forward			R	
2	Single storey two seats pit latrine block 3000 x 2200mm x 2500mm high at eaves comprising concrete surface bed, 220mm external walls, 110 internal walls and corrugated iron roof covering on timber trusses	No	1		
3	Single storey one seat prefabricated corrugated pit latrine block 1500mm x 1500 2300mm high comprising concrete surface bed and 220mm screen brick wall 1200mm x 1800mm high	No	8		
4	Septic tank 2200 x 1300mm area with an estimated depth of 2000mm comprising of concrete slab, surface bed, brickwork, etc.	No	1		
Carried to Final Summary				R	
Prepared by Mgiba Consulting					

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	108	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	108	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	13
4	Holes	m3	
5	For aprons thickening	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	1
7	Hard rock	m3	1
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	7
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	37
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water		Item
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	6
12	Backfilling to trenches, holes, etc	m3	6
<b><u>Compaction of surfaces</u></b>			
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	38
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
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		
15	Compaction of ground surface under 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	25	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	19	
18	To bottoms and sides of trenches etc	m2	56	
19	To bottoms of concrete aprons etc	m2	25	
Carried Forward to Summary of Section No. 3				R
Prepared by Mgiba Consulting				



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	4	
2	Bases	m3		
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	22	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	25	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	2	
7	Slabs including beams and inverted beams	m3		
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	19	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
10	Aprons to falls	m2	25
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	
13	500mm Diameter opening through 100mm slab	No	
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	19
Carried Forward to Summary of Section No. 3			R
Prepared by Mgiba Consulting			

Item No	Quantity	Rate	Amount
<b><u>BUILDING WORKS - GRFD4</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Hollow walls etc</u></b>			
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.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
<b><u>User note:</u></b>			
The above preamble generally applies for works in hot and humid coastal areas			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK</u></b>			
<b>Carried Forward</b>		R	
<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	16
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	187
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	5
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	14
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	62
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	56
8	150mm Wide reinforcement built in horizontally	m	245
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
	<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	6	
	<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	8	
	<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	6	
	<b><u>FACE BRICKWORK</u></b>			
	<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	78	
14	Extra over brickwork for brick-on-edge header course lintel	m	9	
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	2	
	<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	4	
Carried Forward to Summary of Section No. 3				R
Prepared by Mgiba Consulting				

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer			
1	Roof covering with a pitch not exceeding 25 degrees	m2	31	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	31	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	7	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
6	75 x 100mm Rainwater pipes	m	5
7	Extra over rainwater pipe for shoe	No	2
8	Extra over rainwater pipe for eaves or plinth offset	No	2
Carried Forward to Summary of Section No. 3			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 8 000 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		8,000.00
2	Profit and attendance on the above item	Item		1,600.00
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Sundries</u></b>			
3	Two coats creosote on sawn timbers	m2	2
4	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	8
5	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
6	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	17
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
7	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 covered on other side and including rebates all round	No	2
8	44mm 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 one side boarding and covered on other side and including rebates all round	No	4
<b>Carried Forward to Summary of Section No. 3</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	4	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	5
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	2
7	Wall mounted "crystalline range" aluminium She bin 420 x 125 x 600mm high with a central opening lid	No	2
<b><u>"Vaal Paragon"</u></b>			
8	32mm Type 9 back grab rail 800mm long plugged	No	1
9	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
10	38mm Diameter rubber door stop plugged	No	2
<b>Carried Forward to Summary of Section No. 3</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	4	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			





Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 junior toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	5	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or equal approved</u></b>			
2	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1	
	<b><u>"Vanstone" or equal approved</u></b>			
3	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>"Cobra watertech" or equal approved</u></b>			
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
<b><u>"Macneil triumph" or equal approved</u></b>			
5	15mm Stainless steel Extended bip tap	No	2
Carried Forward to Summary of Section No. 3			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRFD4</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	17	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	4	
3	On windows with burglar bars	m2	5	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7	
5	On eaves gutters not exceeding 300 mm girth	m	11	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	13	
	<b>Carried Forward to Summary of Section No. 3</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

SECTION SUMMARY - Building Works - GRFD4 (four seats + one disabled fa				
Bill No		Page No		Amount
1	Earthworks	64		
2	Concrete, Formwork and Reinforcement	66		
3	Masonry	69		
4	Waterproofing	70		
5	Roof Coverings	72		
6	Carpentry and Joinery	74		
7	Ironmongery	76		
8	Metalwork	78		
9	Plastering	79		
10	Plumbing and Drainage (Provisional)	81		
11	Glazing	82		
12	Paintwork	83		
Carried to Final Summary			R	
Prepared by Mgiba Consulting				



Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	8
4	Holes	m3	28
5	For aprons thickening	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	4
7	Hard rock	m3	2
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	32
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	69
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	9
12	Backfilling to trenches, holes, etc	m3	4
<b><u>Compaction of surfaces</u></b>			
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	40
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
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	17	
15	Compaction of ground surface under 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	23	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	30	
18	To bottoms and sides of trenches etc	m2	32	
19	To bottoms of concrete aprons etc	m2	23	
Carried Forward to Summary of Section No. 4				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	2	
2	Bases	m3	3	
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	20	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	23	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	3	
7	Slabs including beams and inverted beams	m3	2	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	67	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
10	Aprons to falls	m2	23
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	9
13	500mm Diameter opening through 100mm slab	No	4
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	47
Carried Forward to Summary of Section No. 4			R
Prepared by Mgiba Consulting			

Item No	Quantity	Rate	Amount
<b><u>BUILDING WORKS - GRMD3</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Hollow walls etc</u></b>			
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.			
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.			
<b><u>User note:</u></b>			
The above preamble generally applies for works in hot and humid coastal areas			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK</u></b>			
<b>Carried Forward</b>		R	
<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	82
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	434
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	14
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	68
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	56
8	150mm Wide reinforcement built in horizontally	m	268
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	8
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	8
<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	10
<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	8
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	85
14	Extra over brickwork for brick-on-edge header course lintel	m	10
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	3
<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	5
Carried Forward to Summary of Section No. 4			R
Prepared by Mgiba Consulting			

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer			
1	Roof covering with a pitch not exceeding 25 degrees	m2	35	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	35	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	8	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

	Brought Forward			R	
6	75 x 100mm Rainwater pipes	m	5		
7	Extra over rainwater pipe for shoe	No	2		
8	Extra over rainwater pipe for eaves or plinth offset	No	2		
Carried Forward to Summary of Section No. 4				R	
Prepared by Mgiba Consulting					

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 12 000.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		12,000.00
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
<b><u>Sundries</u></b>			
2	Two coats creosote on sawn timbers	m2	2
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10
4	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
6	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 covered on other side and including rebates all round	No	2
7	44mm 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 one side boarding and covered on other side and including rebates all round	No	3
<b>Carried Forward to Summary of Section No. 4</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	3	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	4
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	2
<b><u>"Vaal Paragon"</u></b>			
7	32mm Type 9 back grab rail 800mm long plugged	No	1
8	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
9	38mm Diameter rubber door stop plugged	No	2
Carried Forward to Summary of Section No. 4			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	3	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>			
3	Frame for door 813 x 2032mm high	No	2
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
<b><u>Standard school windows</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	6
5	Window type NE7, 1022 x 654mm high including burglar bars	No	2
Carried Forward to Summary of Section No. 4			R
Prepared by Mgiba Consulting			



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Brought Forward			R
<b><u>"Vaal" or equal approved</u></b>			
3	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1
<b><u>"Vanstone" or equal approved</u></b>			
4	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>"Cobra watertech" or equal approved</u></b>			
5	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
<b><u>"Macneil triumph" or equal approved</u></b>			
6	15mm Stainless steel Extended bip tap	No	2
Carried Forward to Summary of Section No. 4			R
Prepared by Mgiba Consulting			





Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - GRMD3</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	23	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	4	
3	On windows with burglar bars	m2	7	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7	
5	On eaves gutters not exceeding 300 mm girth	m	13	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	11	
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

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Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	109	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	109	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	8
4	Holes	m3	28
5	For aprons thickening	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	4
7	Hard rock	m3	2
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	32
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	69
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	9
12	Backfilling to trenches, holes, etc	m3	4
<b><u>Compaction of surfaces</u></b>			
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	40
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
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	17	
15	Compaction of ground surface under 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	23	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	30	
18	To bottoms and sides of trenches etc	m2	32	
19	To bottoms of concrete aprons etc	m2	23	
Carried Forward to Summary of Section No. 5				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	2	
2	Bases	m3	3	
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	20	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	23	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	3	
7	Slabs including beams and inverted beams	m3	2	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	67	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
10	Aprons to falls	m2	23
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	9
13	500mm Diameter opening through 100mm slab	No	4
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	47
Carried Forward to Summary of Section No. 5			R
Prepared by Mgiba Consulting			



Item No	Quantity	Rate	Amount
<b><u>BUILDING WORKS - SMD3</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Hollow walls etc</u></b>			
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.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
<b><u>User note:</u></b>			
The above preamble generally applies for works in hot and humid coastal areas			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK</u></b>			
<b>Carried Forward</b>		R	
<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	82
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	434
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	14
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	68
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	56
8	150mm Wide reinforcement built in horizontally	m	268
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	8
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	8
<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	10
<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	8
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	85
14	Extra over brickwork for brick-on-edge header course lintel	m	10
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	3
<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	5
Carried Forward to Summary of Section No. 5			R
Prepared by Mgiba Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer			
1	Roof covering with a pitch not exceeding 25 degrees	m2	35	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	35	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	8	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 12 000.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		12,000.00
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Sundries</u></b>			
2	Two coats creosote on sawn timbers	m2	2
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10
4	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
6	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 covered on other side and including rebates all round	No	2
7	44mm 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 one side boarding and covered on other side and including rebates all round	No	3
<b>Carried Forward to Summary of Section No. 5</b>			R
<b>Prepared by Mgiba Consulting</b>			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	3	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	4
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	2
<b><u>"Vaal Paragon"</u></b>			
7	32mm Type 9 back grab rail 800mm long plugged	No	1
8	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
9	38mm Diameter rubber door stop plugged	No	2
Carried Forward to Summary of Section No. 5			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	3	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>			
3	Frame for door 813 x 2032mm high	No	2
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
<b><u>Standard school windows</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	6
5	Window type NE7, 1022 x 654mm high including burglar bars	No	2
Carried Forward to Summary of Section No. 5			R
Prepared by Mgiba Consulting			

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 standard toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	4	
	<b><u>ENVIRO-LOO URINAL AND EVAPORATIVE SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
2	"Urinal evaporative tank system" installed to manufactures specification complete with urinal evaporative tank, ventilation extraction unit, outlet vent pipe, vent pipe bracket, eight (8) urinal bowls and bag of mounting screws	No	1	
	<b><u>SANITARY FITTINGS</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>"Vaal" or equal approved</u></b>			
3	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1
<b><u>"Vanstone" or equal approved</u></b>			
4	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>"Cobra watertech" or equal approved</u></b>			
5	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
<b><u>"Macneil triumph" or equal approved</u></b>			
6	15mm Stainless steel Extended bip tap	No	2
Carried Forward to Summary of Section No. 5			R
Prepared by Mgiba Consulting			





Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SMD3</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	23	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	4	
3	On windows with burglar bars	m2	7	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7	
5	On eaves gutters not exceeding 300 mm girth	m	13	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	11	
	<b>Carried Forward to Summary of Section No. 5</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

SECTION SUMMARY - Building Works - SMD3 (three seats + one disable fac				
Bill No		Page No	Amount	
1	Earthworks	110		
2	Concrete, Formwork and Reinforcement	112		
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4	Waterproofing	116		
5	Roof Coverings	118		
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8	Metalwork	124		
9	Plastering	125		
10	Plumbing and Drainage (Provisional)	127		
11	Glazing	128		
12	Paintwork	129		
Carried to Final Summary			R	
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	127	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	127	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward				R
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
3	Trenches	m3	14	
4	Holes	m3	30	
5	For aprons thickening	m3	1	
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
6	Soft rock	m3	4	
7	Hard rock	m3	2	
<b><u>Extra over all excavations for carting away</u></b>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	37	
<b><u>Risk of collapse of excavations</u></b>				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	79	
<b><u>Keeping excavations free of water</u></b>				
10	Keeping excavations free of all water other than subterranean water		Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>				
11	Under floors, steps, pavings, etc	m3	8	
12	Backfilling to trenches, holes, etc	m3	6	
<b><u>Compaction of surfaces</u></b>				
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	46	
Carried Forward				R
Prepared by Mgiba Consulting				

	Brought Forward			R
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	20	
15	Compaction of ground surface under 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	29	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	27	
18	To bottoms and sides of trenches etc	m2	59	
19	To bottoms of concrete aprons etc	m2	29	
Carried Forward to Summary of Section No. 6				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	5	
2	Bases	m3	3	
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	35	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	29	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	3	
7	Slabs including beams and inverted beams	m3	2	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	66	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
10	Aprons to falls	m2	29
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	51
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	15
13	500mm Diameter opening through 100mm slab	No	7
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	46
Carried Forward to Summary of Section No. 6			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.3</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BRICKWORK</u></b>			
	<b><u>Sizes in descriptions</u></b>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<b><u>Hollow walls etc</u></b>			
	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.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	<b><u>User note:</u></b>			
	The above preamble generally applies for works in hot and humid coastal areas			
	<b><u>Face bricks</u></b>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<b><u>Pointing</u></b>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<b><u>BRICKWORK</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	95
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	554
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	5
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	24
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	73
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	93
8	150mm Wide reinforcement built in horizontally	m	288
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	9
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	9
<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	11
<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	9
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	99
14	Extra over brickwork for brick-on-edge header course lintel	m	13
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	4
<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	6
Carried Forward to Summary of Section No. 6			R
Prepared by Mgiba Consulting			

[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer			
1	Roof covering with a pitch not exceeding 25 degrees	m2	39	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	39	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	9	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 12 000.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		12,000.00
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Sundries</u></b>			
2	Two coats creosote on sawn timbers	m2	2
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	11
4	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	21
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
6	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 covered on other side and including rebates all round	No	2
7	44mm 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 one side boarding and covered on other side and including rebates all round	No	6
<b>Carried Forward to Summary of Section No. 6</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	7
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	3
7	Wall mounted "crystalline range" aluminium She bin 420 x 125 x 600mm high with a central opening lid	No	3
<b><u>"Vaal Paragon"</u></b>			
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
8	38mm Diameter rubber door stop plugged	No	2
Carried Forward to Summary of Section No. 6			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>			
3	Frame for door 813 x 2032mm high	No	2
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
<b><u>Standard school windows</u></b>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	7
5	Window type NE7, 1022 x 654mm high including burglar bars	No	2
Carried Forward to Summary of Section No. 6			R
Prepared by Mgiba Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 standard toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	7	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or equal approved</u></b>			
2	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1	
	<b><u>"Vanstone" or equal approved</u></b>			
3	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	2	
	<b><u>TAPS, VALVES, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
	<b><u>"Cobra watertech" or equal approved</u></b>		
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
	<b><u>"Macneil triumph" or equal approved</u></b>		
5	15mm Stainless steel Extended bip tap	No	4
Carried Forward to Summary of Section No. 6			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - SFD6</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	21	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	5	
3	On windows with burglar bars	m2	7	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7	
5	On eaves gutters not exceeding 300 mm girth	m	14	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	16	
	<b>Carried Forward to Summary of Section No. 6</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



<b>SECTION SUMMARY - Building Works - SFD6 (six seats + one disable facilit</b>					
<b>Bill No</b>		<b>Page No</b>			<b>Amount</b>
1	Earthworks	133			
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9	Plastering	148			
10	Plumbing and Drainage (Provisional)	150			
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<b>Carried to Final Summary</b>					R
<b>Prepared by Mgiba Consulting</b>					

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	126	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	126	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	8
4	Holes	m3	40
5	For aprons thickening	m3	2
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	5
7	Hard rock	m3	2
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	44
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	88
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	14
12	Backfilling to trenches, holes, etc	m3	5
<b><u>Compaction of surfaces</u></b>			
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	58
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
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	24	
15	Compaction of ground surface under 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	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	46	
18	To bottoms and sides of trenches etc	m2	36	
19	To bottoms of concrete aprons etc	m2	33	
Carried Forward to Summary of Section No. 7				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	3	
2	Bases	m3	4	
3	Aprons cast in panels	m3	2	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	46	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	33	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	5	
7	Slabs including beams and inverted beams	m3	2	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	97	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
10	Aprons to falls	m2	33
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	73
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	15
13	500mm Diameter opening through 100mm slab	No	8
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	70
Carried Forward to Summary of Section No. 7			R
Prepared by Mgiba Consulting			

Item No	Quantity	Rate	Amount
<b><u>BUILDING WORKS - MD7</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>Hollow walls etc</u></b>			
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.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
<b><u>User note:</u></b>			
The above preamble generally applies for works in hot and humid coastal areas			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK</u></b>			
<b>Carried Forward</b>		R	
<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	104
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	541
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	34
5	Half brick walls in beamfilling	m2	3
6	One brick walls	m2	94
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	132
8	150mm Wide reinforcement built in horizontally	m	369
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	11
Carried Forward			R
Prepared by Mgiba Consulting			



	Brought Forward			R
	<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	11	
	<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	15	
	<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	11	
	<b><u>FACE BRICKWORK</u></b>			
	<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	131	
14	Extra over brickwork for brick-on-edge header course lintel	m	16	
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	7	
	<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	7	
Carried Forward to Summary of Section No. 7				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
<b><u>BUILDING WORKS - MD7</u></b>				
<b><u>BILL NO.4</u></b>				
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b>				
1	In walls	m2	104	
<b><u>One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>				
2	Under surface beds	m2	46	
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>				
<b><u>Two coats "Flintkote Type 5" bitumen emulsion waterproof coating</u></b>				
3	On concrete floors	m2	24	
4	On brick walls	m2	69	
Carried Forward to Summary of Section No. 7				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer			
1	Roof covering with a pitch not exceeding 25 degrees	m2	56	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	56	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	13	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 18 000.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		18,000.00
2	Profit and attendance on the above item	Item		3,600.00
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Sundries</u></b>			
3	Two coats creosote on sawn timbers	m2	3
4	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	15
5	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
6	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	33
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
7	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 covered on other side and including rebates all round	No	3
8	44mm 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 one side boarding and covered on other side and including rebates all round	No	7
<b>Carried Forward to Summary of Section No. 7</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No 3		
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No 3		
3	Indicator bolt with keep fixed to metal	No 7		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	3
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	8
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	4
<b><u>"Vaal Paragon"</u></b>			
7	32mm Type 9 back grab rail 800mm long plugged	No	1
8	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
9	38mm Diameter rubber door stop plugged	No	3
Carried Forward to Summary of Section No. 7			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	3	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	7	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



[illegible]

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 standard toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	8	
	<b><u>ENVIRO-LOO URINAL AND EVAPORATIVE SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
2	"Urinal evaporative tank system" installed to manufactures specification complete with urinal evaporative tank, ventilation extraction unit, outlet vent pipe, vent pipe bracket, seven (7) urinal bowls and bag of mounting screws	No	2	
	<b><u>SANITARY FITTINGS</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>"Vaal" or equal approved</u></b>			
3	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1
<b><u>"Vanstone" or equal approved</u></b>			
4	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	3
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>"Cobra watertech" or equal approved</u></b>			
5	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
<b><u>"Macneil triumph" or equal approved</u></b>			
6	15mm Stainless steel Extended bip tap	No	6
Carried Forward to Summary of Section No. 7			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - MD7</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	33	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	7	
3	On windows with burglar bars	m2	9	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	11	
5	On eaves gutters not exceeding 300 mm girth	m	17	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	21	
	<b>Carried Forward to Summary of Section No. 7</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

SECTION SUMMARY - Building Works - MD7 (seven seats + one disable faci			
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7	Ironmongery	168	
8	Metalwork	170	
9	Plastering	171	
10	Plumbing and Drainage (Provisional)	173	
11	Glazing	174	
12	Paintwork	175	
Carried to Final Summary			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	83	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	83	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	10
4	Holes	m3	23
5	For aprons thickening	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	3
7	Hard rock	m3	2
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	28
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	67
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	6
12	Backfilling to trenches, holes, etc	m3	5
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Compaction of surfaces</u></b>			
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	35
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	15
15	Compaction of ground surface under 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	25
<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4
<b><u>SOIL POISONING</u></b>			
<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	21
18	To bottoms and sides of trenches etc	m2	44
19	To bottoms of concrete aprons etc	m2	25
Carried Forward to Summary of Section No. 8			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	3	
2	Bases	m3	2	
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	35	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	25	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	2	
7	Slabs including beams and inverted beams	m3	1	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	51
10	Aprons to falls	m2	25
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	42
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	11
13	500mm Diameter opening through 100mm slab	No	6
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	36
Carried Forward to Summary of Section No. 8			R
Prepared by Mgiba Consulting			



Brought Forward			R
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	78
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	433
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	4
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	24
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	52
<b><u>BRICKWORK SUNDRIES</u></b>			
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	93
8	150mm Wide reinforcement built in horizontally	m	203
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	7
<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	9
<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	8
<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	9
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	77
14	Extra over brickwork for brick-on-edge header course lintel	m	13
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	4
<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	6
<b>Carried Forward to Summary of Section No. 8</b>			R
<b>Prepared by Mgiba Consulting</b>			



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Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>0,6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer</u>			
1	Roof covering with a pitch not exceeding 25 degrees	m2	31	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	31	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	7	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

**The Mvula Trust**  
**LDOE 2022/23 Schools Water and**  
**Sanitation Programme at**  
**Mphanama Primary School**

Brought Forward			R
4	Extra over eaves gutter for stopped end	No	2
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2
6	75 x 100mm Rainwater pipes	m	5
7	Extra over rainwater pipe for shoe	No	2
8	Extra over rainwater pipe for eaves or plinth offset	No	2
Carried Forward to Summary of Section No. 8			R
Prepared by Mgiba Consulting			



Brought Forward			R
<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 12 000 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item	12,000.00
2	Profit and attendance on the above item	Item	2,400.00
<b><u>Sundries</u></b>			
3	Two coats creosote on sawn timbers	m2	2
4	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	8
5	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
6	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	21
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
7	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 covered on other side and including rebates all round	No	2
8	44mm 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 one side boarding and covered on other side and including rebates all round	No	6
<b>Carried Forward to Summary of Section No. 8</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	6
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	2
7	Wall mounted "crystalline range" aluminium She bin 420 x 125 x 600mm high with a central opening lid	No	2
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
8	38mm Diameter rubber door stop plugged	No	2
Carried Forward to Summary of Section No. 8			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
	<u>1,2mm Double rebated frames suitable for one brick walls</u>		
3	Frame for door 813 x 2032mm high	No	2
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>		
	<b><u>Standard school windows</u></b>		
4	Window type NE1, 533 x 654mm high including burglar bars	No	6
5	Window type NE7, 1022 x 654mm high including burglar bars	No	3
Carried Forward to Summary of Section No. 8			R
Prepared by Mgiba Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>BUILDING WORKS - F6</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 standard toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	1	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vanstone" or equal approved</u></b>			
2	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	2	
	<b><u>TAPS, VALVES, ETC</u></b>			
	<b><u>"Macneil triumph" or equal approved</u></b>			
3	15mm Stainless steel Extended bip tap	No	4	
	<b>Carried Forward to Summary of Section No. 8</b>		R	
	<b>Prepared by Mgiba Consulting</b>			







SECTION SUMMARY - Building Works - F6 (six seats)					
Bill No		Page No		Amount	
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8	Metalwork	193			
9	Plastering	194			
10	Plumbing and Drainage (Provisional)	195			
11	Glazing	196			
12	Paintwork	198			
Carried to Final Summary			R		
Prepared by Mgiba Consulting					

Item No	Quantity	Rate	Amount
<b><u>SECTION NO.2</u></b>			
<b><u>BILL NO.1</u></b>			
<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Nature of ground</u></b>			
Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
<b><u>Nature of ground</u></b>			
A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
<b><u>Carting away of excavated material</u></b>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
<b><u>SITE CLEARANCE ETC</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	127
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	127
<b><u>EXCAVATION, FILLING, ETC</u></b>			
<b>Carried Forward</b>			R
<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Trenches	m3	14
4	Holes	m3	30
5	For aprons thickening	m3	1
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	4
7	Hard rock	m3	2
<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	37
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	79
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
11	Under floors, steps, pavings, etc	m3	8
12	Backfilling to trenches, holes, etc	m3	6
<b><u>Compaction of surfaces</u></b>			
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	46
Carried Forward			R
Prepared by Mgiba Consulting			

	Brought Forward			R
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	20	
15	Compaction of ground surface under 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	29	
	<b><u>Prescribed density tests on filling</u></b>			
16	"Modified AASHTO Density" test	No	4	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide</u></b>			
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	27	
18	To bottoms and sides of trenches etc	m2	59	
19	To bottoms of concrete aprons etc	m2	29	
Carried Forward to Summary of Section No. 9				R
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
1	Strip footings	m3	5	
2	Bases	m3	3	
3	Aprons cast in panels	m3	1	
4	Thickening down under surface beds 85mm deep x 200mm wide extreme, including preparing ground or earth filling	m	35	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	29	
	<b><u>REINFORCED CONCRETE</u></b>			
6	Surface beds on waterproofing	m3	3	
7	Slabs including beams and inverted beams	m3	2	
	<b><u>TEST BLOCKS</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
9	Surface beds, slabs, etc	m2	66	
10	Aprons to falls	m2	29	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	51
<b><u>Permenent formwork to soffits</u></b>			
12	Slabs propped up not exceeding 1.5m high	m2	15
13	500mm Diameter opening through 100mm slab	No	7
<b><u>Fabric reinforcement</u></b>			
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	46
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			



Brought Forward			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	95
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
2	150mm Wide reinforcement built in horizontally	m	554
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	5
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
4	Half brick walls	m2	24
5	Half brick walls in beamfilling	m2	2
6	One brick walls	m2	73
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
7	75mm Wide reinforcement built in horizontally	m	93
8	150mm Wide reinforcement built in horizontally	m	288
<b><u>Pair of prestressed fabricated lintels</u></b>			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	9
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>Turning pieces</u></b>			
10	220mm Wide turning piece to lintels etc	m	9
<b><u>Galvanised wire ties etc</u></b>			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	11
<b><u>Air bricks etc</u></b>			
12	230 x 152mm "Terra-colls" or equal approved vermin proof air brick including making good to reveals	No	9
<b><u>FACE BRICKWORK</u></b>			
<b><u>"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints</u></b>			
13	Extra over brickwork for face brickwork pointed on both sides	m2	99
14	Extra over brickwork for brick-on-edge header course lintel	m	13
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	4
<b><u>Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces</u></b>			
16	220mm Wide sill set level and slightly projecting	m	6
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>0.6mm "Brownbuilt Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer</u>			
1	Roof covering with a pitch not exceeding 25 degrees	m2	39	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>			
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	39	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>100mm Aluminium zinc seamless</u></b>			
3	100 x 100mm Eaves gutters	m	9	
4	Extra over eaves gutter for stopped end	No	2	
5	Extra over eaves gutter for outlet for 75 x 100mm pipe	No	2	
6	75 x 100mm Rainwater pipes	m	5	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
7	Extra over rainwater pipe for shoe	No	2
8	Extra over rainwater pipe for eaves or plinth offset	No	2
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 7mm centres Roof covering is 7 on purlins/battens Ceilings are 7mm sheeting (with skimming?) on 7 x 7mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	<b><u>PLATE NAILED ROOF TRUSS CONSTRUCTION</u></b>			
	<b><u>Prefabricated timber trusses with pitch not exceeding 25 degrees</u></b>			
1	Allow the provisional sum of R 12 500.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		12,500.00
	<b><u>Sundries</u></b>			
2	Two coats creosote on sawn timbers	m2	2	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	11
4	Hurricane clips	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>"Everite Flexit" or equal approved pressed nutec-cement</u></b>			
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	21
<b><u>DOORS ETC</u></b>			
<b><u>Wrought meranti doors hung to steel frames</u></b>			
6	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 covered on other side and including rebates all round	No	2
7	44mm 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 one side boarding and covered on other side and including rebates all round	No	6
<b>Carried Forward to Summary of Section No. 9</b>			R
<b>Prepared by Mgiba Consulting</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS Satin bronze lacquered CH Chromium plated			
	SC Satin chromium plated			
	SE Silver enamelled			
	GE Grey enamelled			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>"Union" or equal approved</u></b>			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal approved</u></b>			
2	Three lever lockset	No	2	
3	Indicator bolt with keep fixed to metal	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
<b><u>"Solid" or equal approved</u></b>			
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Steiner" or equal approved</u></b>			
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	7
6	Lockable "crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holding capacity with a sensor unit fixed to wall	No	3
7	Wall mounted "crystalline range" aluminium She bin 420 x 125 x 600mm high with a central opening lid	No	3
<b><u>"Vaal Paragon"</u></b>			
8	32mm Type 9 back grab rail 800mm long plugged	No	1
9	32mm Type 8 side grab rail 900mm girth plugged	No	1
<b><u>SUNDRIES</u></b>			
<b><u>"Solid"</u></b>			
10	38mm Diameter rubber door stop plugged	No	2
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<b><u>Screens and gates</u></b>			
1	Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 50 x 50 x 2,5mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800 x 2 038mm high of 60 x 40 x 2,0mm hollow section frame with two 60 x 40 x 2,0mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter x 80mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>1,2mm Rebated frames suitable for half brick walls</u></b>			
2	Frame for door 813 x 2032mm high	No	6	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<u>1,2mm Double rebated frames suitable for one brick walls</u>			
3	Frame for door 813 x 2032mm high	No	2
<u>STEEL WINDOWS, DOORS, ETC</u>			
<u>Standard school windows</u>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	7
5	Window type NE7, 1022 x 654mm high including burglar bars	No	2
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			



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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b>			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	<b><u>ENVIRO-LOO TOILET SYSTEM</u></b>			
	<b><u>"Enviro loo" or equal approved</u></b>			
1	"Industrial 1040 standard toilet system" installed to manufactures specification complete with top unit with hinged inspection cover, bottom unit with 3 support pipes, drying plate, 2 inlet pipes with liquid level indicator, 2300mm outlet vent pipe, wall mounting bracket, drying bag, extraction unit, toilet bowl seat and lid, anchors, enzyme, organic starter and toilet cleaner	No	7	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal" or equal approved</u></b>			
2	510 x 405mm "Hibiscus" code VAA-702303 ceramic wash hand basin and 32mm anti-theft plug with spindle supported on a universal floor mounted pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	1	
	<b><u>"Vanstone" or equal approved</u></b>			
3	Reinforced concrete double compartment wash trough size 1065mm long on pedestal complete with all necessary pipework, traps, waste union, etc and connection to soak away (taps measured elsewhere)	No	2	
	<b><u>TAPS, VALVES, ETC</u></b>			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
<b><u>"Cobra watertech" or equal approved</u></b>			
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1
<b><u>"Macneil triumph" or equal approved</u></b>			
5	15mm Stainless steel Extended bip tap	No	4
Carried Forward to Summary of Section No. 9			R
Prepared by Mgiba Consulting			



Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>			
1	On fascias and barge boards	m2	21	
	<b><u>ON METAL</u></b>			
	<b><u>Spot priming defects in pre primed surfaces with polyamide cured epoxy zinc chromate primer and applying one polyamide cured epoxy undercoat and ? coat/coats ? polyamide cured finishing epoxy paint on steel</u></b>			
2	On door frames	m2	5	
3	On windows with burglar bars	m2	7	
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7	
5	On eaves gutters not exceeding 300 mm girth	m	14	
	<b><u>ON WOOD</u></b>			
	<b><u>Three coats polyurethane semi-gloss varnish</u></b>			
6	On doors	m2	16	
	<b>Carried Forward to Summary of Section No. 9</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Bill No	SECTION SUMMARY - Building Works - FD6 (six seats + one disable facility)		Page No	Amount	
1	Earthworks		202		
2	Concrete, Formwork and Reinforcement		204		
3	Masonry		207		
4	Waterproofing		208		
5	Roof Coverings		210		
6	Carpentry and Joinery		212		
7	Ironmongery		214		
8	Metalwork		216		
9	Plastering		217		
10	Plumbing and Drainage (Provisional)		219		
11	Glazing		220		
12	Paintwork		221		
Carried to Final Summary				R	
Prepared by Mgiba Consulting					

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EXTERNAL WORKS</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Where applicable the Contractor is referred to the relevant sections of SABS1200 for the full specification, meaning and implications of the work to be executed			
	<b><u>PAVED WALKWAYS</u></b>			
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	500	
	<u>Earthworks</u>			
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	m2	500	
	<u>Compaction of surfaces</u>			
3	Compaction of ground surface including scarifying as necessary for a depth of 150mm, breaking down oversize material, adding suitable material where necessary, levelling and compacting to 95% Mod AASHTO density	m2	500	
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward			R
	<u>Prescribed density tests on filling</u>		
4	"Modified AASHTO Density" tests	No	5
	<b><u>SOIL POISONING</u></b>		
	<u>Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions</u>		
5	Under paving, etc	m2	500
	<u>Approved soil poisoning applied under a 10 year guarantee</u>		
6	Soil insecticide applied and mixed in the proportion and rate as specified under floors	m2	500
	<b><u>PAVING</u></b>		
	<u>Light grey 60mm "Grinaker G-blocks" interlocking precast concrete (35 MPa) paving blocks or equal approved laid with butt joints on 30mm thick river sand bed with sand swept into joints including preparation of ground for filling</u>		
7	Paving in herringbone bond in walkways	m2	500
8	220mm Wide brick-on-edge header course edging on 80mm thick mortar bed	m	833
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>		
9	Garden kerb (figure 12) 50 x 100 x 200mm high unreinforced concrete, bedded in concrete, including excavation, backfilling, etc	m	417
10	Mountable kerb (figure 8c) 275 x 300 x 200mm high unreinforced concrete, bedded in concrete, including excavation, backfilling, etc	m	417
Carried Forward			R
Prepared by Mgiba Consulting			



Brought Forward			R
	<u>Extra over for cutting units to fit edge restraints</u>		
11	Cutting units to fit edge restraints	m	83
<b><u>IN-SITU STORMWATER CHANNELS</u></b>			
<b><u>EXCAVATIONS (PROVISIONAL)</u></b>			
	<u>Excavate in earth not exceeding 2m deep</u>		
12	Shallow trenches with sloping sides	m3	13
	<u>Extra over trench and hole excavations in earth for excavations in</u>		
13	Soft rock	m3	2
14	Hard rock	m3	1
	<u>Extra over all excavations for carting away</u>		
15	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21
<b><u>FILLING</u></b>			
	<u>Compaction of surfaces</u>		
16	Compaction of ground surface under stormwater channels 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	367
<b><u>UNREINFORCED CONCRETE</u></b>			
	<u>25MPa/19mm concrete</u>		
17	Bottom and sides of stormwater channels	m3	21
<b><u>SUNDRIES</u></b>			
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a steel float</u>		
18	Surfaces of stormwater channel	m2	408
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>		
	<u>Rough formwork to sides</u>		
19	Edges and risers, etc not exceeding 300mm high	m	1,667
	<b><u>SEWER DRAINAGE (PROVISIONAL)</u></b>		
	<u>Class 400 uPVC pipes for underground installations</u>		
20	160mm Pipes in and including trenches not exceeding 1m deep	m	60
21	160mm Pipes in and including trenches exceeding 1m and not exceeding 2m deep	m	90
	<u>Extra over 160mm uPVC pipes for fittings</u>		
22	Bend	No	8
23	Access bend	No	3
24	Access junction	No	10
25	Rodding eye	No	3
	<u>uPVC channels</u>		
26	160mm Half-round channels in bottoms of inspection chambers	m	3
27	160mm Half round channel junctions in bottoms of inspection chambers	No	6
28	160mm Half round channel bends in bottoms of inspection chambers	No	6
	<b>Carried Forward</b>		R
	<b>Prepared by Mgiba Consulting</b>		

Brought Forward			R
<u>Precast concrete circular inspection chambers (covers elsewhere)</u>			
29	Inspection chamber 1500mm diameter exceeding 1500mm and not exceeding 1750mm deep internally (covers elsewhere measured)	No	1
30	Inspection chamber 1800mm diameter exceeding 1750mm and not exceeding 2000mm deep internally (covers elsewhere measured)	No	1
31	Inspection chamber 1950mm diameter exceeding 1750mm and not exceeding 2000mm deep internally (covers elsewhere measured)	No	1
<u>Covers etc</u>			
32	300 x 300 x 50mm Precast concrete inspection eye marker slab set in ground	No	3
33	Type 4 cast iron manhole cover and frame	No	3
34	Lifting key for manhole cover	No	3
<u>Sundries</u>			
35	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	14
36	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	8
37	Selected sand filling from the excavations in bedding under and filling around pipes	m3	3
38	Testing sewer pipe system		Item
<b><u>SEPTIC TANK AND SOAKAWAY</u></b>			
<b><u>EARTHWORKS</u></b>			
<b><u>SITE CLEARANCE ETC</u></b>			
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
	<u>Site clearance</u>		
39	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55
	<b><u>EXCAVATIONS</u></b>		
	<u>Excavate in earth not exceeding 2m deep</u>		
40	Holes	m3	14
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>		
41	Holes	m3	3
	<u>Extra over trench and hole excavations in earth for excavations in</u>		
42	Soft rock	m3	1
43	Hard rock	m3	1
	<u>Extra over all excavations for carting away</u>		
44	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	16
	<u>Risk of collapse of excavations</u>		
45	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	27
	<u>Keeping excavations free of water</u>		
46	Allow for keeping all excavations entirely free from water and mud		Item
	<b><u>FILLING</u></b>		
	<b>Carried Forward</b>		R
	<b>Prepared by Mgiba Consulting</b>		

Brought Forward			R
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>		
47	Backfilling to trenches, holes, etc	m3	1
	<u>G5 filling obtained from the demolitions and/or prescribed stockpiles on site compacted to 93% Mod AASHTO density</u>		
48	Under floors, steps, paving etc.	m3	2
	<u>Coarse dry, clean, washed riversand filling supplied by the contractor and evenly spread, levelled, watered and rammed to receive waterproof membrane (elsewhere)</u>		
49	Under floors etc	m3	1
	<u>Stone filling of 19mm broken stone</u>		
50	Under floors etc	m3	6
	<u>Filter fabric</u>		
51	Geofabric bidim on stone surface	m2	8
	<u>Compaction of surfaces</u>		
52	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	7
	<u>Soil insecticide</u>		
53	Soil insecticide applied and mixed in the proportion and rate as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m2	7
	<b><u>CONCRETE</u></b>		
	<b><u>REINFORCED CONCRETE</u></b>		
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
	<u>25MPa/20mm concrete</u>		
54	200mm reinforced concrete slab	m3	1
55	170mm reinforced concrete slab	m3	1
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
	<u>Permanent formwork to soffits</u>		
56	Slabs propped up not exceeding 1,5m high	m2	7
<b><u>REINFORCEMENT</u></b>			
	<u>Fabric reinforcement</u>		
57	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	14
<b><u>BRICKWORK</u></b>			
<b><u>FOUNDATIONS</u></b>			
	<u>Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
58	One brick walls	m2	23
<b><u>SUNDRIES</u></b>			
	<u>Brick reinforcement</u>		
59	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	3
<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster on brickwork</u>		
60	On walls	m2	23
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
<b><u>SUBSOIL DRAINAGE</u></b>			
61	Excavation not exceeding 2m deep for drain trenches	m3	5
62	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	3
63	110mm "uPVC" perforated pipes laid in stone encasing	m	3
64	Extra over for 110mm capped end	No	1
65	Extra over for 110mm junction	No	1
66	Extra over for 110mm bend	No	1
67	110mm Rodding eye	No	1
68	300 x 300 x 50mm Precast concrete inspection eye marker slab set in ground	No	1
<u>Gratings, covers, etc</u>			
69	600 x 750mm Diameter type M2579 cast iron manhole cover and frame	No	2
70	Lifting key for manhole cover	No	1
<u>Sundries</u>			
71	173 x 240mm Cast iron horseshoe pattern step iron built into brickwork	No	20
72	Testing drainage pipe system		Item
<b><u>WATER RETICULATION</u></b>			
<u>Class 9 uPVC pressure pipes</u>			
73	50mm Pipes laid in and including trenches	m	10
74	75mm Pipes laid in and including trenches	m	300
Carried Forward			R
Prepared by Mgiba Consulting			

**The Mvula Trust**  
**LDOE 2022/23 Schools Water and**  
**Sanitation Programme at**  
**Mphanama Primary School**

<b>Brought Forward</b>			R
<u>Extra over class 9 uPVC pipes for fittings</u>			
75	50mm Bend	No	1
76	50mm Endcap	No	0.2
77	75mm Bend	No	15
78	75mm Endcap	No	6
<u>"Taps, valves etc."</u>			
79	50mm R.S.V gate valve	No	0.4
80	75mm R.S.V gate valve	No	6
81	Strainer	No	3
82	Inspection chamber 1500mm diameter exceeding 1500mm and not exceeding 1750mm deep internally (covers elsewhere measured)	No	3
<u>Valve boxes</u>			
83	600 x 600mm Cast iron stopcock box including brick chamber not exceeding 500mm deep internally	No	6
<u>Sundries</u>			
84	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	12
85	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	6
86	50mm sand filling supplied by contractor in bedding under and filling around pipes	m3	56
87	Unreinforced concrete in thrust blocks at bends, tees, etc including necessary extra excavation, formwork, etc	m3	6
88	300 x 300 x 50mm Precast concrete pipeline marker slab set in ground	No	6
<b>Carried Forward</b>			R
<b>Prepared by Mgiba Consulting</b>			



Brought Forward			R
89	Testing water pipe system	Item	
<b><u>WATER STORAGE TANK AND STAND</u></b>			
<u>Earthworks</u>			
90	Excavate in earth not exceeding 2m deep for holes	m3	4
91	Risk of collapse to sides of excavations	m2	12
<u>25MPa/20mm reinforced concrete</u>			
92	Bases	m3	2
<u>Galvanised tank stand</u>			
93	Pre-fabricated steel tank stand with 4,75m long legs, constructed complete as per details engineers specification	No	2.00
<u>"Jojo" or equal approved fixed uPVC vertical tank</u>			
94	Polyethylene tank (10kl) 1,82m diameter x 2,25m high on and including galvanised tank stand(stand measured elsewhere)	No	1
95	Polyethylene tank (5kl) 1,82m diameter x 2,25m high on and including galvanised tank stand(stand measured elsewhere)	No	1
<b><u>FENCING</u></b>			
<b><u>Scope</u></b>			
This specification covers the erection of a security fence. The tenderers are not bound to specific trade names but materials offered are to meet relevant SABS Specifications and to be within CCS451 - 1976 specifications for anti-intruder fencing.			
Carried Forward			R
Prepared by Mgiba Consulting			

<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>Interpretations</u></b></p> <p>Fencing shall be deemed to include all items such as gates etc., and material and labour required to complete the work.</p> <p><b><u>Height</u></b></p> <p>The fence shall be 2,1 or 2,4 meters high measured from natural ground levels, from cleared strip of ground one metre wide on boundary.</p> <p><b><u>Fence wire razor mesh</u></b></p> <p>Razor mesh made up of 2,5mm diameter core wire with minimum 0,4mm thick galvanised blade strips with 8mm re-inforcing shoulder with standard 300 x 150mm aperture size 2,1m high to be fixed to the straining wires by 1,6mm binding at 700mm intervals.</p> <p>Razor mesh to be placed on outside of all fencing poles.</p> <p>The top end of mesh to be finished to form barbs after the loose ends have been wrapped twice around the top straining wire.</p> <p><b><u>Gates</u></b></p> <p>Supply each gate with a suitable length of heavy duty chain and a 50mm heavy duty brass padlock with two keys</p> <p>Gates shall have all joints and accessories securely welded on with all welds neatly trimmed and waterproofed, with either square and mitred corners or accurately jig-formed rounded corners with a radius not exceeding 100mm</p> <p>Gates shall be hot dipped galvanised after fabrication, to conform with the requirements of SABS specification 763 - Class A</p> <p>_____</p> <p><b><u>Fencing</u></b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p><b>Prepared by Mgiba Consulting</b></p>	<p style="text-align: right;">R</p> <hr/> <p style="text-align: right;">R</p>
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Brought Forward			R
<u>Galvanised diamond mesh security fencing</u>			
96	1800mm High fencing, set up complete as described including site clearance, eyebolts and posts with footings	m	68
97	Strainer post with two stays embedded into and including concrete blocks	No	27
98	Corner post with two stays embedded into and including concrete blocks	No	4
99	Gate post with one stay embedded into and including concrete blocks	No	2
<u>Welded steel palisade security fencing with posts encased in concrete footings</u>			
100	Palisade security fencing in 1.8m high x 3m long panels made of 38 x 76 x 2mm tubular steel top and bottom rails, filled in vertically with 40 x 40 x 3mm hot rolled angle iron palisades 1800mm long at 191mm centres with spikes on top, panels fixed to 76 x 76 x 2mm posts with top cap cast into concrete bases 400 x 400 x 500mm thick with bottom of base 500mm below natural ground level complete with earth works, etc.	m	598
<u>Gates</u>			
101	Automated sliding gate 7 300 x 2 400mm high complete with locking mechanism made of 50 x 50 x 2mm square hollow section frame with vertical sides, top and bottom rails, filled in with vertically 40 x 40 x 3mm hot rolled angle iron with spikes on top welded to top and bottom rails at 191mm centres, including heavy duty steel wheels welded onto bottom rail and 16mm diameter steel roller guide welded onto 50 x 50 x 5mm angle section secured with 10mm diameter bars set into 300 x 200mm mass concrete footing finished smooth with a steel trowel, necessary formwork and excavation.	No	2
Carried Forward			R
Prepared by Mgiba Consulting			

Brought Forward			R
102	Automated sliding gate 5 600 x 2 400mm high complete with locking mechanism made of 50 x 50 x 2mm square hollow section frame with vertical sides, top and bottom rails, filled in with vertically 40 x 40 x 3mm hot rolled angle iron with spikes on top welded to top and bottom rails at 191mm centres, including heavy duty steel wheels welded onto bottom rail and 16mm diameter steel roller guide welded onto 50 x 50 x 5mm angle section secured with 10mm diameter bars set into 300 x 200mm mass concrete footing finished smooth with a steel trowel, necessary formwork and excavation.	No	2
103	Pedestrian single gate 1200 x 2400mm high of 25 x 50 x 2mm hollow section frame and horizontal middle rail, filled in with 10mm diameter round solid vertical bars at 80mm centres and fitted with one-and-a-half pair of suitable hinges fitted with horizontal sliding bolt for padlock bolted to cochrane taper locking gate post including bolts	No	4
<b><u>Paintwork</u></b>			
<u>One coat galvogrip metal primer and two coats Plascon Velvagro polyurethane aklyd semi gloss enamel paint</u>			
104	On gates, grilles etc	m2	1,221
Carried to Final Summary			R
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<u>CASH DISCOUNT</u>			
	No cash discount. All provisional sums are "NET".			
	<u>ATTENDANCE</u>			
	Without in any way limiting the meaning and interpretation, "general attendance" on sub-contractors shall include free of charge to the sub-contractor the following services for the purpose of the relative sub-contract works:			
	1) access to the site and to the places where the work is to be carried out, including the use of any temporary personnel hoists erected by the Contractor for his own use;			
	2) the provision of water and lighting and of single and/or three phase electric power to a position within 50 metres of the place where work is to be carried out, but excluding water, fuel and power for commissioning of the installation for which the Contractor shall be responsible;			
	3) the provision of an area for office accommodation, temporary workshops and for the storage of plant and materials;			
	4) the use of erected scaffolding belonging to the Contractor, in common with others having the like right whilst it so remains erected upon the site;			
	5) the use of messrooms, latrine, health and welfare facilities, and the like, where provided;			
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Brought Forward		R
6) the use of the site telephone (if provided) subject to the payment by the sub-contractor for all his outgoing calls;		
7) temporary casing and/or other protection of the work;		
8) site security measures;		
9) hoisting of the sub-contractor's material in loads not exceeding 500 kg;		
10) making good in all trades and final cleaning down on completion.		
<b><u>FUEL, POWER AND WATER FOR COMMISSIONING PLANT</u></b>		
The cost of fuel, power and water for the commissioning of plant shall be borne by the sub-contractor appointed for the relevant sub-contract works in terms of the conditions under which they have/are contract for the specialist work involved. The contractor shall allow opposite this item or under the relevant attendance items for the recovery of such costs via the installation of the necessary metres, etc.		
<b><u>REFURBISHMENT OF EXISTING BOREHOLE</u></b>		
1 Provide an allowance for refurbishment of existing borehole including yield and water quality testing, and reticulation, to be expended as the Agent/Representative may direct or deduct in whole or in part, if not required.	Item	250,000.00
2 Allow for profit on last if required.	Item	
3 Allow for giving every facility to, attending upon and making good after the Specialists installing the service complete and for providing the use of all ordinary plant	Item	
<b>Carried to Final Summary</b>		R
<b>Prepared by Mgiba Consulting</b>		

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
	<b><u>TOTAL SECTION 1- PRELIMINARIES</u></b>			
1	Preliminaries	59		
	<b><u>TOTAL SECTION 2- EXISTING BUILDINGS</u></b>			
2	Building Works - Existing Buildings	61		
	<b><u>TOTAL SECTION 3- BUILDING WORKS - GRFD4</u></b>			
3	Building Works - GRFD4 (four seats + one disabled facility)	84		
	<b><u>TOTAL SECTION 4- BUILDING WORKS - GRMD3</u></b>			
4	Building Works - GRMD3 (three seats + one disabled facility + eight urinals)	107		
	<b><u>TOTAL SECTION 6- BUILDING WORKS - SMD3</u></b>			
5	Building Works - SMD3 (three seats + one disable facility + three urinals)	130		
	<b><u>TOTAL SECTION 7- BUILDING WORKS -SFD6</u></b>			
6	Building Works - SFD6 (six seats + one disable facility)	153		
	<b><u>TOTAL SECTION 8- BUILDING WORKS - MD7</u></b>			
7	Building Works - MD7 (seven seats + one disable facility + fourteen urinals)	176		
	<b><u>TOTAL SECTION 9- BUILDING WORKS - F6</u></b>			
8	Building Works - F6 (six seats)	199		
	<b><u>TOTAL SECTION 10- BUILDING WORKS - FD6</u></b>			
9	Building Works - FD6 (six seats + one disable facility)	222		
	<b><u>TOTAL SECTION 11- EXTERNAL WORKS</u></b>			
10	External Works	236		
	<b>Carried Forward</b>		R	
	<b>Prepared by Mgiba Consulting</b>			

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
	<b>Brought Forward</b>		R
	<u><b>TOTAL SECTION 12- PROVISIONAL SUMS</b></u>		
11	Provisional Sums	238	
	SUB-TOTAL (EXCLUDING VAT)		R
	<u><b>CONTINGENCIES</b></u>		
	Allow 10% of the sub-total for contingencies to be st the discretion of the Employer and deduct in whole or in part if not required	%	
	SUB-TOTAL (EXCLUDING VAT)		R
	VALUE ADDED TAX (15%)		R
	<b>Carried to Form of Tender</b>		R
	<b>Prepared by Mgiba Consulting</b>		