Item No			Quantity	Rate	Amount	
	SE	CTION NO. 1				
	BIL	<u>L NO. 1</u>				
	PR	<u>ELIMINARIES</u>				
	PRI	<u>ELIMINARIES</u>				
	All p	prices/rates to be net, excluding Value Added Tax				
	Gen	neral_				
	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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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				
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"				
SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT				
Definitions (A1)				
Definitions and interpretation (clause 1)				
Clause 1.1 Definition of "Agreement" is amended by replacing it with the following:				
Agreement means the agreement arising from the signing of the Form of Offer and Acceptance by the parties.				
Clause 1.1 Definition of "Bills of Quantities" is amended by adding the following:				
"and the Pricing Instructions contained in the Pricing Data" after the word measuring system.				
Clause 1.1 Definition of "Contract Documents" is amended by adding the following:				
"this Agreement and all other documents referenced therein" after the word this document"				
Clause 1.1 Definition of "Contract Drawings" is amended by replacing it with the following:				
Contract Drawings means the drawings upon which the tender was accepted and used in preparing the bills				
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of quantities and are available for viewing at the offices of the Principal Agent at the time of tender				
Clause 1.1 Definition of "Contract Sum" is amended by replacing it with the following:				
Contract Sum means the total of prices in the Form of Offer and Acceptance.				
Clause 1.1 Definition of " Schedule" is amended by adding the following:				
"and in the Contract Data" . at the end on the sentence ending with agreement				
Clause 1.1 Definition of "Commencement Date" is added:				
"Commencement date" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect				
Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:				
"Construction guarantee" means guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule				
Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:				
"Construction period" means the period commencing on the commencement date and ending on the date of practical completion				
Clause 1.1 Definition of "Corrupt Practice" is added:				
"Corrupt Practice" 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				
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Clause 1.1 Definition of "Fraudulent Practice" is added:			
"Fraudulent Practice" 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.			
Clause 1.1 Definition of "Interest" is amended by replacing it with the following:			
"Interest" 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).			
Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:			
"Principal Agent" means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule.			
Clause 1.1 Definition of " Security " is amended by replacing it with the following:			
Security" means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss			
Fixed	Item		
Value Related	Item		
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	Time Related	Item		
	Objective and Preparation (A2 - A14)			
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:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.			
	Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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5	Employer's agents (clause 5) Fixed			ı
		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 bills of quantities for the contractor 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		
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9	Indemnities (clause 9)			
	Clause 9.0 is amended by adding Clause 9.1.4:			
	The contractor indemnifies and holds harmless the employer 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 contractor, 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 contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer 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			
	10.5 Damage to the Works			
	(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the			
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	employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary		
b)	The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works		
(c)	The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6		
(d)	Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof		
10.6 le Prope	njury to Persons or loss of or damage to erties		
(a)	The contractor shall be liable for and hereby indemnifies the employer 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 works unless due to any act or neglect of any person for whose actions the employer is legally liable		
(b)	The contractor shall be liable for and hereby indemnifies the employer 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 site , whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions		
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	the employer is legally liable			
c)	The contractor shall, upon receiving a contract instruction from the principal agent , cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor			
(d)	The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion			
(e)	Where the execution of the works 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 contractor shall ogtain 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 works has been completed			
(f)	The contractor 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 works			
10.7 Hi	gh risk insurance			
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:				
10.7.1	Damage to the works			
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The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary 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		
10.7.2 Injury to persons or loss of or damage to property		
The contractor shall be liable for and hereby indemnifies and holds harmless the employer 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		
The contractor shall be liable for and hereby indemnifies the employer 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 site , whether belonging to or under the control of the employer 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		
10.7.3 It is the responsibility of the contractor 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 contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works , submit to the employer		
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	proof of such insurance policy, if requested to do so			ı
	10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's 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 contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole			
	Fixed	Item		Ī
	Value Related	Item		ı
	Time Related	Item		ı
11	Liability insurances (clause 11)			I
	Fixed	Item		1
	Value Related	Item		1
	Time Related	Item		1
12	Effecting insurances (clause 12)			1
	Fixed	Item		1
	Value Related	Item		1
	Time Related	Item		1
13	No clause (clause 13)	Item		1
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14	Secu	rity (clause 14)				
	Claus	se 14.0 is amended by:-				
	i)	The addition of the following clauses:-				
		Clause 14.7.3				
		"Hand the site over to the contractor subject to agreement that shall be made between the employer and the contractor "				
		Fixed	Item			
		Value Related	Item			
		Time Related	Item			
		Carried to Collection		R		
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	Execution (A15 - A23)			
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 security 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 ammendments, within twenty-one (21) calendar days of commencement date			
	Clause 15.2.1 is amended by replacing it with the following clause:			
	Give the contractor possession of the site within ten (10) working days of the contractor 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		
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17	Contract instructions (clause 17)			ı
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
18	Setting out of the works (clause 18)			
	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			
	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.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
19	Assignment (clause 19)	Item		
	Value Related	Item		
	Time Related	Item		
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20	Nominated sub-contractors (clause 20)				
	Clause 20.0				Ì
	Clause 20.1.3 is amended by replacing it with the following:				
	No Clause				1
	Fixed	Item			1
	Value Related	Item			1
	Time Related	Item			1
21	Selected sub-contractors (clause 21)				Ì
	Fixed	Item			
	Value Related	Item			1
	Time Related	Item			Ì
22	Employer's direct contractors (clause 22)				Ì
	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.				
	Fixed	Item			
	Value Related	Item			1
	Time Related	Item			1
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23	Contractor's domestic sub-contractors (Clause 23)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	COMPLETION			
	Completion (A24-A30)			
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		
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Time Related	Item		
Sectional completion (clause 28)			
Fixed	Item		
Value Related	Item		
Time Related	Item		
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 calender 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 practical completion 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 principal agent rules that the contractor is entitled to an extension of time or a revision of the date for practical completion , the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the			
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	progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be. Clause 29.10.2 Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works 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 contractor shall prove that such steps are being taken if called upon to do so. Clause 29.10.3				
	The contractor's entitlement to compensation arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor 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			
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	Payment (A31 - A35)			
31	Interim payment to the contractor (clause 31)			
	Clause 31.9 is amended by replacing "seven (7) calender days" with "thirty (30) calender days" and by deleting the words "subject to the contractor giving the employer a tax invoice for the amount due			
	Clause 31.12 is amended by deleting the following			
	Payment shall be subject to the employer giving the contractor 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 contractor "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
33	Recovery of expense and loss (clause 33)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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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) calendar days" with "thirty (30) calendar days" and deleting the words "subject to the employer giving the contractor 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		
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	Cancellation (A36-A39)				
36	Cancellation by employer - contractor's default (clause 36)				
	Clause 36.1 is amended by the additions of the following clauses:				
	36.1.3 refuses or neglects to comply strictly with any of the conditions of contract				
	36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa				
	36.1.5 in the judgement of the employer , has engaged in corrupt or fraudulent practices in competing for or in executing the contract				
	Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"				
	Clause 36.0 is amended by the addition of the following clause:				
	36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
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37	Cancellation by employer - loss and damage (clause 37)				ı
	Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"				
	Clause 37.0 is amended by the addition of the following clause:				
	37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
38	Cancellation by contractor - employer's default (clause 38)				
	Clause 38.5.4 is amended by replacing "ninety (90) with "one-hundred and twenty (120)"				
	Clause 38.0 is amended by the addition of the following clause:				
	38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
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	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) working days of completion of such report"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Dispute Settlement (A40)			
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		
	State Provision (A41)			
41	State Substitutions (clause 41)			
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clause	e in the Substitute Provisions (41.0 State Clauses) es 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and se with the following:			
40.1	Should any dispute between the employer , his agents or principal agent on the one hand and the contractors on the other arise out of this agreement , such dispute shall be referred to adjudication.			
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 adjudicator shall be appointed in terms of the Adjudicators Agreement set out in C1.4.			
40.3	If provided in the schedule , 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			
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	out the facts and the provisions of the contract on which his award is based.			
	40.4 If the schedule provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Contract Variables (A41)			
42	The Schedule (clause 42)			
	Tenderers are referred to the Contract Data and Notes to Tenderes for variable pertaining to this contract			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	SECTION B: PRELIMINARIES			
	Definition and interpretation (B1)			
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			
	amended definitions which shall apply equally to this	ltem		
	amended definitions which shall apply equally to this Section	Item Item		
	amended definitions which shall apply equally to this Section Fixed			
	amended definitions which shall apply equally to this Section Fixed Value Related	Item		
	amended definitions which shall apply equally to this Section Fixed Value Related Time Related	Item		
	amended definitions which shall apply equally to this Section Fixed Value Related	Item	R	
	amended definitions which shall apply equally to this Section Fixed Value Related Time Related	Item	R	
	amended definitions which shall apply equally to this Section Fixed Value Related Time Related Carried to Collection	Item	R	
	amended definitions which shall apply equally to this Section Fixed Value Related Time Related Carried to Collection	Item	R	

	Documents (B2)			
44	Checking of documents (B2.1)			
	These bills of quantities:			
	(1) contain pages and annexes as indexed, and;			
	(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances			
	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			
	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)			
	The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period			
	Fixed	Item		
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	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)			
	Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders			
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	The site (B3)			
50	Defined works area (B3.1)			
	Fixed	Item		
	Value Related	Item		
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

	Time Related	Item		ı
51	Geotechnical investigation (B3.2)			ı
	Fixed	Item		1
	Value Related	Item		1
	Time Related	Item		1
52	Inspection of the site (B3.3)			ı
	Tenderers are instructed to familiarise themself 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.			
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained			
	Fixed	Item		ı
	Value Related	Item		ı
	Time Related	Item		ı
53	Existing premises occupied (B3.4)			1
	Fixed	Item		ı
	Value Related	Item		ı
	Time Related	Item		ı
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

54	Previous work - dimensional accuracy (B3.5)			
	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			
	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		
	Carried to Collection		R	
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59	Articles of value (B3.10)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
60	Inspection of adjoining properties, etc (B3.11)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Management of contract (B4)				
61	Management of the works (B4.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
62	Programming for the works (B4.2)				
	Clause B4.2 is hereby amended by the addition of the following:				
	Programme:				
	The contractor and the principal agent shall agree to a Contract Programme for the control of the Works.				
	The contractor shall submit a draft of the Contract Programme and method statement to the principal agent for approval together with the tender.				
	The contractor shall ensure that the contract programme:				
	1. Shall be prepared and drawn up to comply in all				
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respects with the requirements of this Agreement.				
2. shall be drawn up using logic developed during the tender period and complies with the				
planning requirements of the Client. 3. shall be in accordance with the dates given				
herein for possession and practical completion; and				
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.				
 shall be accompanied by a full written method statement 				
The principal agent shall examine and comment on the				
contract programme and method statement within two weeks of its submission.				
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.				
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.				
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.				
No policy decisions other than the planning requirements, procedures and policies provided, will be				
enforced on the contractor regarding construction of the				
project and the contractor shall be responsible at all				
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times for ensuring the accuracy, validity and reasonableness of programming information.		
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.		
Development of the contract programme and method statement		
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.		
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.		
Revisions to the contract programme		
Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.		
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.		
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.		
Should the contractor fail to submit a request for revision to the construction programme , progress		
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monitoring shall be based on the latest revised programme sanctioned by the principal agent.		
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.		
Progress Monitoring		
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.		
The status of each activity must also be reported as follows:		
Target - If the activity is not complete, the latest predicted completion date shall be supplied.		
Start - If the activity has commenced, the actual date shall be supplied.		
Finish - If the activity is complete, the actual completion date shall be supplied.		
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.		
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.		
The principal agent may recommend action to be taken 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		
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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.			
Extension of time			
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.			
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 aforegoing principle it is provide that:			
The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and			
 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. 			
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 aforegoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement.			
A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent,			
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	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 aforegoing 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			
	Value Related	Item			
	Time Related	Item			
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	Samples, shop drawings and manufacturer's instructions (B5)				
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			
	Temporary works and plant (B6)				
70	Deposits and fees (B6.1)				
	Fixed	Item			
	Value Related	Item			
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	Time Related	Item		İ
71	Enclosure of the works (B6.2)			
	Fixed	Item		
	Value Related	Item		1
	Time Related	Item		1
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]
75	Subcontractors notice board (B6.6)]
	Fixed	Item]
	Value Related	Item		
	Time Related	Item]
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	Temporary services (B7)			
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		
80	Ablution facilities (B7.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	Prime cost amounts (B8)				
81	Responsibility for prime cost amounts (B8.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Attendance on nominated and selected subcontractors (B9)				
82	General attendance (B9.1)				
	The schedule rates providing for attendance on nominated subcontractors and other contractors , 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			
	Value Related	Item			
	Time Related	Item			
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	Financial aspects (B10)			
85	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)			
	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) working days of taking possession of the site " with "when submitting his priced bills of quantities "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
88	Payment certificate cash flow (B10.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	General (B11)			
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		
	Value Related	Item		
	Time Related	Item		
	Carried to Collection		R	
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Enviromental disturbance (B11.6)				
Fixed	Item			
Time Related	Item			
Value Related	Item			
Works cleaning and clearing (B11.7)				Ì
Fixed	Item			1
Value Related	Item			Ì
Time Related	Item			Ì
Vermin (B11.8)				Ì
Fixed	Item			Ì
Value Related	Item			Ì
Time Related	Item			Ì
Overhand work (B11.9)				Ì
Fixed	Item			Ì
Value Related	Item			Ì
Time Related	Item			Ì
Instruction manuals and guarantees (B11.10)				Ì
Fixed	Item			Ì
Value Related	Item			Ì
Time Related	Item			Ì
As built information (B11.11)				Ì
Fixed	Item			1
				Ì
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Carried to Collection				
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				1
				1
	Fixed Time Related Value Related Works cleaning and clearing (B11.7) Fixed Value Related Time Related Vermin (B11.8) Fixed Value Related Time Related Overhand work (B11.9) Fixed Value Related Time Related Instruction manuals and guarantees (B11.10) Fixed Value Related Time Related Time Related Instruction manuals and guarantees (B11.10) Fixed	Fixed Item Time Related Item Value Related Item Works cleaning and clearing (B11.7) Fixed Item Value Related Item Value Related Item Time Related Item Value Related Item Value Related Item Value Related Item Time Related Item Time Related Item Time Related Item Value Related Item Value Related Item Value Related Item Value Related Item Time Related Item Time Related Item As built information (B11.11) Fixed Item Value Related Item Fixed Item Value Related Item Time Related Item	Fixed Item Time Related Item Value Related Item Works cleaning and clearing (B11.7) Fixed Item Value Related Item Value Related Item Time Related Item Value Related Item Value Related Item Value Related Item Overhand work (B11.9) Fixed Item Value Related Item Time Related Item Item Value Related Item Value Related Item Value Related Item Time Related Item Alter Value Related Item Time Related Item Value Related Item Time Related Item Time Related Item Time Related Item Value Related Item Value Related Item Value Related Item Time Related Item	Fixed Item Time Related Item Works cleaning and clearing (B11.7) Fixed Item Value Related Item Value Related Item Time Related Item Varmin (B11.8) Fixed Item Value Related Item Overhand work (B11.9) Fixed Item Time Related Item Time Related Item Time Related Item Value Related Item Value Related Item Value Related Item Time Related Item Time Related Item As built information (B11.11) Fixed Item Value Related Item Value Related Item Value Related Item Value Related Item Value Related Item Time Related Item Value Related Item Time Related Item Value Related Item Value Related Item Time Related Item Value Related Item Time Related Item Value Related Item Value Related Item Value Related Item Value Related Item Time Related Item Value Related Item

	Value Related	Item			
	Time Related	Item			
100	Tenant installations (B11.12)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Schedule of variables (B12)				
101	Pre-tender information (B12.1)				
	This schedule 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 Preliminaries .				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	12.1.1 Provisional bills of quantities (B12.1.1)				
	The quantities are provisional: Yes				
	12.1.2 Availability of construction documentation (B12.1.2)				
	Construction documentation is complete: Yes				
	12.1.3 Interest of agents (B12.1.3) No				
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12.1.4 Defined works area (B12.1.4)		1	
The area of the works to be occupied contractor, any restriction on the area the limit of access or exit will be point to the contractor by the principal agent handing over of the site	and fed out		
12.1.5 Geotechnical investigation (B12.1.5)			
The geotechnical report is available for viewing a offices of the Principal Agent	t the		
12.1.6 Existing premises occupied (B12.1.6)			
[3.4] Specific requirements: The contractor shall execute the works we little noise and disturbance as possible. Contractor shall comply with the school condition and/or program	Гhe		
12.1.7 Previous work - Dimensional accuracy (B ² [3.5] Details: No additional details	12.1.7)		
	No		
12.1.8 Previous work - defects			
[3.6] Details: No additional details			
12.1.9 Services - known (B12.1.9)			
Existing services and points of conne are shown on the site plan and/or will pointed out on site by the principal ag	be		
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12.1.10	Protection of trees			
[3.9]	Specific requirements: No trees to be damaged or removed except those specifically designated in writing by the Architect			
12.1.11	Inspection of adjoining properties			
[3.11]	Specific requirements: None			
12.1.12	Enclosure of the works			
[6.2}	Specific requirements: Areas where work is taking place shall at all times be blocked off by appropriate means			
12.1.13	Offices			
[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 24m2. 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.			
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12.1.14 Main notice board		
[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. YES		
12.1.15 Subcontractors' notice board		
[6.6] A notice board is required NO		
Specific requirements:		
12.1.16 <i>Water</i>		
[7.2] Option A (by contractor) Yes		
12.1.17 <i>Electricity</i>		
[7.3] Option A (by contractor) Yes		
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12.1.1	8 Telecommunications					
[7.4]	Telephone	Yes				
	Facsimile	Yes				
	E-mail	Yes				
12.1.1	9 Ablution facilities					
[7.5}	Option A (by contractor)	Yes				
[1.0]	option / (by contractor)	100			I	
	Option B (by employer)	No				
12.1.20 works	O Protection of existing/sec	tionally occupied				
[11.2]	Protection is required	Yes				
12.1.2	1 Special attendance					
	The contractor must obtain is subcontractors at tender statement attendance that might be reallowance for each and ever requires special attendance	nge regarding special quired and make ry subcontract that				
[9.2]	Subcontractor (1) Details:					
	Subcontractor (2) Details:					
	Subcontractor (3) Details:					
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12.1.22 Protection of the works		
[11.1] Specific requirements: All work that requires protection during construction must be adequately protected up to practical completion by the contractor		
12.1.23 Security		
[11.3] Specific requirements: The contractor shall provide 24 hours security		
12.1.24 Disturbance		
[11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent		
12.1.25 Environmental disturbance		
[11.6] Specific requirements: None		
12.1.26 Progress meetings		
[18.63] Specific requirements: The contractor shall provide for refreshments and food during progress meetings (catering of meals to be out sourced to a local service provider)		
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	12.1 27	7 Technical			
		Specific requirements: The contractor shall provide for refreshments and food during technical meetings (catering of meals to be out sourced to a local service provider)			
102	Post-te	ender information (B12.2)			
	All pos determ	st-tender information for this section will be nined once tender is awarded			
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	12.2.1	Payment of preliminaries			
	[10.2]	Option A (prorated) No			
		Option B (calculated) Yes			
		Adjustment of preliminaries Option A (three categories) Yes			
		Option B (detailed breakdown) No			
	12.2.3	Additional agreed preliminaries items			
		Details: None			
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103	Other post tender infornation (B12.3)			
	All post-tender information for this section will be determined once tender is awarded			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item			
104	Clause C1 - Contract drawings			
	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 works 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 principal agent			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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105	Clause C2 - General Preambles			
	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	Clause C3 - Site instructions			
	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		
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107	Clause C4 - Trade Names			
	Wherever a trade name for any product has been described in the bills of quantities , 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 principal agent being obtained prior to the closing date for submission of tenders			
	If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
108	Clause C5 - Overtime			
	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			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
109	Clause C6 - As-built drawings			
	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			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
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110	Clause C5 - Labour record			
	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	Clause C6 - Plant record			
	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	Clause C7 - Non-cession of monies			
	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		
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113	Clause C8 - Occupational Health and Safety Act			
	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).			
	It is required of the contractor to thoroughly study the latest Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.			
	The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total noncompliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.			
	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.			
	Fixed	Item		
	Value Related	Item		
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114	Clause C9 - Viewing of the school areas			
	The site 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 site for tendering purposes			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
115	Clause C10 - Commencement of Works in School Areas			
	As the works falls within a school area the contractor must give the Principal or other responsible staff member notice before commencement of the works . Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
116	Clause C11 - Entrance Permits to School Areas			
	As the works falls within a school area the contractor 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		
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117	Clause C12 - Security Check of Personnel				
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified				
	In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works				
	Fixed	Item			
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118	Clause C13 - HIV/Aids Awareness			
	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities. 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 contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
119	Clause C13.1 - Awareness Champion			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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120	Clause C13.2 - Awareness Workshop				
	Selection and appointment of a competent Service Provider approved by the principal agent , 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	Clause C13.3 - Posters, booklets, videos, etc.				
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
122	Clause C13.4 - Access to Condoms				
	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 construction period , all in accordance with the HIV/AIDS Specification				
	Fixed	Item			
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123	Clause C13.5- Monitoring			
	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
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	Time Related	Item		
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - EXISTING TOILETS				
	BILL NO.1				
	EARTHWORKS (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground				
	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				
	Nature of ground				
	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				
	Carting away of excavated material				
	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				
	Demolishing and removing				
1	Single storey four seats pit latrine block 3000 x 4400mm x 2500mm high at eaves comprising concrete surface bed, 220mm external walls, 110 internal walls and corrugated iron roof covering on timber trusses No	7			
	Carried to Final Summary		R		_
	Prepared by Mgiba Consulting				

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3					
	BILL NO.1					
	EARTHWORKS (PROVISIONAL)					
	SUPPLEMENTARY PREAMBLES					
	Nature of ground					
	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					
	Nature of ground					
	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					
	Carting away of excavated material					
	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					
	SITE CLEARANCE ETC					
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			
	EXCAVATION, FILLING, ETC					
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	Prepared by Mgiba Consulting					

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

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		
	Prescribed density tests on filling				
16	"Modified AASHTO Density" test	No	4		
	SOIL POISONING				
	Soil insecticide				
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		
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Section No. 3					
Bill No. 1					
Earthworks					
COLLECTION					
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tem No			Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3					
	BILL NO.2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
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			
	REINFORCED CONCRETE					
6	Surface beds on waterproofing	m3	3			
7	Slabs including beams and inverted beams	m3	2			
	TEST BLOCKS					
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4			
	CONCRETE SUNDRIES					
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	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	67		
10	Aprons to falls	m2	23		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	9		
13	500mm Diameter opening through 100mm slab	No	4		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	47		
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Section No. 3				
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
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	Quantity	Rate	Amount
BUILDING WORKS - GRMD3			
BILL NO.3			
SUPPLEMENTARY PREAMBLES			
BRICKWORK			
Sizes in descriptions			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
Hollow walls etc			
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.			
<u>User note:</u>			
The above preamble generally applies for works in hot and humid coastal areas			
Face bricks			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Pointing			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
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Item No

	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	82		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2	150mm Wide reinforcement built in horizontally	m	434		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
4	Half brick walls	m2	14		
5	Half brick walls in beamfilling	m2	2		
6	One brick walls	m2	68		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
7	75mm Wide reinforcement built in horizontally	m	56		
8	150mm Wide reinforcement built in horizontally	m	268		
	Carried to Collection			R	
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	Pair of prestressed fabricated lintels				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	8		
	Turning pieces				
10	220mm Wide turning piece to lintels etc	m	8		
	Galvanised wire ties etc				
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	10		
	Air bricks etc				
12	230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	8		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
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		
	Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces				
16	220mm Wide sill set level and slightly projecting	m	5		
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3					
	BILL NO.4					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	75			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	30			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	17			
4	On brick walls	m2	43			
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3				
	BILL NO.5				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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 m	2 35			
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc m	2 35			
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	n 8			
4	Extra over eaves gutter for stopped end N	0 2			
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5	Extra over eaves gutter for outlet for 75 x 100mm	n 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 offse	et	No	2		
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Section No. 3				
Bill No. 5				
Roof Coverings				
COLLECTION				
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - GRMD3			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	ROOFS ETC			
	Plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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			
	PLATE NAILED ROOF TRUSS CONSTRUCTION			
1	Prefabricated timber trusses with pitch not exceeding 25 degrees 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
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	<u>Sundries</u>				
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		
	EAVES, VERGES, ETC				
	"Everite Flexit" or equal approved pressed nutec- cement				
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23		
	DOORS ETC				
	Wrought meranti doors hung to steel frames				
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				
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Section No. 3				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3				
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
1	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 black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded CATCHES, CABIN HOOKS, ETC "Union" or equal approved 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	2			
	LOCKS				
	"Union" or equal approved				
2	Three lever lockset No.	2			
	Operate data Operation				_
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3	Indicator bolt with keep fixed to metal	No	3			
	LETTERS, NAMEPLATES, ETC					
	"Solid" or equal approved					
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2			
	BATHROOM FITTINGS					
	"Steiner" or equal approved					
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 holing capacity with a sensor unit fixed to wall	No	2			
	"Vaal Paragon"					
7	32mm Type 9 back grab rail 800mm long plugged	No	1			
8	32mm Type 8 side grab rail 900mm girth plugged	No	1			
	SUNDRIES					
	"Solid"					
9	38mm Diameter rubber door stop plugged	No	2			
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Section No. 3			
Bill No. 7			
Ironmongery			
COLLECTION			
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Item No		Qua	intity	Rate	Amount	
	BUILDING WORKS - GRMD3					
	BILL NO.8					
	<u>METALWORK</u>					
	SUPPLEMENTARY PREAMBLES					
	<u>Descriptions</u>					
	Descriptions of bolts shall be deemed to include nuts and washers					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete					
	Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described					
	WELDED SCREENS, GATES, ETC					
	Screens and gates					
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			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls					
2	Frame for door 813 x 2032mm high	No	3			
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	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
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 to Collection			R	_
	Carried to Collection				_
	Prepared by Mgiba Consulting				

Section No. 3			
Bill No. 8			
Metalwork			
COLLECTION			
	Page		Amount
Total Brought Forward from Page No.	No 86		
	87		
Carried Forward to Summary of Section No. 3		R	
Prepared by Mgiba Consulting			

Item No		Quantity	Rate	Amount	
	BUILDING WORKS - GRMD3				
	BILL NO.9				
	PLASTERING				
	SCREEDS				
	Screeds on concrete				
1	30mm Thick on floors and landings m2	26			
	INTERNAL PLASTER				
	Cement plaster on brickwork				
2	On walls in pits m2	43			
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	Carried Forward to Summary of Section No. 3		R		_
	Prepared by Mgiba Consulting				
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Item No		Quantity	Rate	Amount
1	BUILDING WORKS - GRMD3			
	BILL NO.10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	ENVIRO-LOO TOILET SYSTEM			
	"Enviro loo" or equal approved			
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	4		
	ENVIRO-LOO URINAL AND EVAPORATIVE SYSTEM			
	"Enviro loo" or equal approved			
2	"Urinal evaporative tank system" installed to manufactures specification complete with urinal evaporative tank, ventilation extraction unit, outlet vent pipe, vent pipe bracket, three (3) urinal bowls and bag of mounting screws No	1		
	SANITARY FITTINGS			
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

	"Vaal" or equal approved					
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			
	"Vanstone" or equal approved					
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			
	TAPS, VALVES, ETC					
	"Cobra watertech" or equal approved					
5	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1			
	"Macneil triumph" or equal approved					
6	15mm Stainless steel Extended bip tap	No	2			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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Section No. 3				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	90			
	91			
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Carried Forward to Summary of Section No. 3		R		
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	Quantity	Rate	Amount
BUILDING WORKS - GRMD3			
BILL NO.11			
GLAZING			
GLAZING TO STEEL WITH PUTTY			
6.28 mm Obscure safety glass			
Panes not exceeding 0,1 m2 m	2 3		
Carried Forward to Summary of Section No. 3		R	
Prepared by Mgiba Consulting			
	BILL NO.11 GLAZING GLAZING TO STEEL WITH PUTTY 6.28 mm Obscure safety glass Panes not exceeding 0,1 m2 m2 Carried Forward to Summary of Section No. 3	BUILDING WORKS - GRMD3 BILL NO.11 GLAZING GLAZING TO STEEL WITH PUTTY 6.28 mm Obscure safety glass Panes not exceeding 0,1 m2 m2 3 Carried Forward to Summary of Section No. 3	BUILDING WORKS - GRMD3 BILL NO.11 GLAZING GLAZING TO STEEL WITH PUTTY 6.28 mm Obscure safety glass Panes not exceeding 0,1 m2

Item No			Quantity	Rate	Amount
	BUILDING WORKS - GRMD3				
	BILL NO.12				
	PAINTWORK				
	PAINTWORK ETC TO NEW WORK				
	ON FIBRE-CEMENT				
	One coat primer and two coats exterior quality PVA emulsion paint				
1	On fascias and barge boards	m2	23		
	ON METAL				
	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				
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		
	ON WOOD				
	Three coats polyurethane semi-gloss varnish				
6	On doors	m2	11		
	Carried Forward to Summary of Section No. 3			R	
	Prepared by Mgiba Consulting				

	SECTION SUMMARY - Building Works - GRMD3 (three seats + or	ne disable	ŧ	
Bill No		Page No		Amount
1	Earthworks	68		
2	Concrete, Formwork and Reinforcement	71		
3	Masonary	75		
4	Waterproofing	76		
5	Roof Coverings	79		
6	Carpentry and Joinery	82		
7	Ironmongery	85		
8	Metalwork	88		
9	Plastering	89		
10	Plumbing and Drainage (Provisional)	92		
11	Glazing	93		
12	Paintwork	94		
	Carried to Final Summary		R	
	Prepared by Mgiba Consulting			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - GRFD3	1			
	BILL NO.1				
	EARTHWORKS (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground				
	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				
	Nature of ground				
	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				
	Carting away of excavated material				
	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				
	SITE CLEARANCE ETC				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	87		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	87		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	11		
4	Holes	m3	19		
5	For aprons thickening	m3	1		
	Extra over trench and hole excavations in earth for excavation in				
6	Soft rock	m3	3		
7	Hard rock	m3	2		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	25		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	64		
	Keeping excavations free of water				
10	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc	m3	5		
12	Backfilling to trenches, holes, etc	m3	5		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

	Compaction of surfaces					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	31			
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	12			
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	22			
	Prescribed density tests on filling					
16	"Modified AASHTO Density" test	No	4			
	SOIL POISONING					
	Soil insecticide					
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	15			
18	To bottoms and sides of trenches etc	m2	47			
19	To bottoms of concrete aprons etc	m2	22			
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Section No. 4			
Bill No. 1			
Earthworks			
COLLECTION			
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	97		
	98		
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Item No			Quantity	Rate	Amount	·
	BUILDING WORKS - GRFD3					
	BILL NO.2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
1	Strip footings	m3	4			
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	15			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	22			
	REINFORCED CONCRETE					
6	Surface beds on waterproofing	m3	2			
7	Slabs including beams and inverted beams	m3	1			
	TEST BLOCKS					
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4			
	CONCRETE SUNDRIES					
	Carried to Collection			R		
	Prepared by Mgiba Consulting					

	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	40		
10	Aprons to falls	m2	22		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	38		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	9		
13	500mm Diameter opening through 100mm slab	No	4		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	28		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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Section No. 4				
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	100			
	101			
Carried Forward to Summary of Section No. 4		R		
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
-	BUILDING WORKS - GRFD3				
	BILL NO.3				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	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.				
	<u>User note:</u>				
	The above preamble generally applies for works in hot and humid coastal areas				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Carried to Collection		R		
	Prepared by Mgiba Consulting				_
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	<u>Pointing</u>				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	72		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2	150mm Wide reinforcement built in horizontally	m	410		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	4		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
4	Half brick walls	m2	10		
5	Half brick walls in beamfilling	m2	1		
6	One brick walls	m2	56		
	BRICKWORK SUNDRIES				
					-
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

Brickwork reinforcement					
75mm Wide reinforcement built in horizontally	m	38			
150mm Wide reinforcement built in horizontally	m	219			
Pair of prestressed fabricated lintels					
110 x 75mm Lintels in lengths not exceeding 3m	m	5			
Turning pieces					
220mm Wide turning piece to lintels etc	m	6			
Galvanised wire ties etc					
4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	7			
Air bricks etc					
230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	5			
FACE BRICKWORK					
"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints					
Extra over brickwork for face brickwork pointed on both sides	m2	67			
Extra over brickwork for brick-on-edge header course lintel	m	8			
Fair cutting and fitting around pipe not exceeding 100mm diameter	No	3			
Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces					
220mm Wide sill set level and slightly projecting	m	3			
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Prepared by Mgiba Consulting					
	75mm Wide reinforcement built in horizontally 150mm Wide reinforcement built in horizontally Pair of prestressed fabricated lintels 110 x 75mm Lintels in lengths not exceeding 3m Turning pieces 220mm Wide turning piece to lintels etc Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork Air bricks etc 230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals FACE BRICKWORK "Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints Extra over brickwork for face brickwork pointed on both sides Extra over brickwork for brick-on-edge header course lintel Fair cutting and fitting around pipe not exceeding 100mm diameter Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces 220mm Wide sill set level and slightly projecting	75mm Wide reinforcement built in horizontally 150mm Wide reinforcement built in horizontally Pair of prestressed fabricated lintels 110 x 75mm Lintels in lengths not exceeding 3m m Turning pieces 220mm Wide turning piece to lintels etc m Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork No Air bricks etc 230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals No FACE BRICKWORK "Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints Extra over brickwork for face brickwork pointed on both sides Extra over brickwork for brick-on-edge header course lintel Fair cutting and fitting around pipe not exceeding 100mm diameter No Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces 220mm Wide sill set level and slightly projecting Carried to Collection	75mm Wide reinforcement built in horizontally m 219 Pair of prestressed fabricated lintels 110 x 75mm Lintels in lengths not exceeding 3m m 5 Turning pieces 220mm Wide turning piece to lintels etc m 6 Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork No 7 Air bricks etc 230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals No 5 FACE BRICKWORK "Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints Extra over brickwork for face brickwork pointed on both sides m 2 Extra over brickwork for brick-on-edge header course lintel m 8 Fair cutting and fitting around pipe not exceeding 100mm diameter No 3 Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces 220mm Wide sill set level and slightly projecting m 3	75mm Wide reinforcement built in horizontally m 219 Pair of prestressed fabricated lintels 110 x 75mm Lintels in lengths not exceeding 3m m 5 Turning pieces 220mm Wide turning piece to lintels etc m 6 Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork No 7 Air bricks etc 230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals No 5 FACE BRICKWORK "Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints Extra over brickwork for face brickwork pointed on both sides m 8 Fair cutting and fitting around pipe not exceeding 100mm diameter No 3 Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces 220mm Wide sill set level and slightly projecting m 3	75mm Wide reinforcement built in horizontally m 219 Pair of prestressed fabricated lintels 110 x 75mm Lintels in lengths not exceeding 3m m 5 Turning pieces 220mm Wide turning piece to lintels etc m 6 Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork No 7 Air bricks etc 230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals No 5 FACE BRICKWORK "Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints Extra over brickwork for face brickwork pointed on both sides m 8 Fair cutting and fitting around pipe not exceeding 100mm diameter No 3 Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces 220mm Wide sill set level and slightly projecting m 3 Carried to Collection R

Section No. 4				
Bill No. 3				
Masonary				
COLLECTION				
	Page No		Amount	
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Prepared by Mgiba Consulting				

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - GRFD3					
	BILL NO.4					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	62			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	15			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	12			
4	On brick walls	m2	43			
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	Described by Matha Consulting					_
	Prepared by Mgiba Consulting					

Item No			Quantity	Rate	Amount
	BUILDING WORKS - GRFD3				
	BILL NO.5				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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	26		
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	26		
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	m	5		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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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 to Collection			R	
	Prepared by Mgiba Consulting				

Section No. 4				
Bill No. 5				
Roof Coverings				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	108			
	109			
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - GRFD3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	<u>Fixing</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	ROOFS ETC				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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				
	PLATE NAILED ROOF TRUSS CONSTRUCTION				
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	Prepared by Mgiba Consulting				-

	Prefabricated timber trusses with pitch not exceeding 25 degrees				
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		9 000.00
2	Profit and attendance on the above item		Item		1 800.00
	<u>Sundries</u>				
3	Two coats creosote on sawn timbers	m2	1		
4	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	7		
5	Hurricane clips	No	6		
	EAVES, VERGES, ETC				
	"Everite Flexit" or equal approved pressed nutec- cement				
6	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	15		
	DOORS ETC				
	Wrought meranti doors hung to steel frames				
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				
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Section No. 4				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	111			
	112			
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Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
	BUILDING WORKS - GRFD3				
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
	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 black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded CATCHES, CABIN HOOKS, ETC				
	"Union" or equal approved				
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	2			
	LOCKS				
	"Union" or equal approved				
2	Three lever lockset No	2			
	Carried to Collection		R		
	Prepared by Mgiba Consulting				

3	Indicator bolt with keep fixed to metal	No	3			
	LETTERS, NAMEPLATES, ETC					
	"Solid" or equal approved					
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2			
	BATHROOM FITTINGS					
	"Steiner" or equal approved					
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 holing 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			
	"Vaal Paragon"					
8	32mm Type 9 back grab rail 800mm long plugged	No	1			
9	32mm Type 8 side grab rail 900mm girth plugged	No	1			
	SUNDRIES					
	"Solid"					
10	38mm Diameter rubber door stop plugged	No	2			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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Section No. 4				
Bill No. 7				
Ironmongery				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	114			
	115			
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Carried Forward to Summary of Section No. 4		R		
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	BUILDING WORKS - GRFD3			
	BILL NO.8			
	METALWORK			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	WELDED SCREENS, GATES, ETC			
	Screens and gates			
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	2		
	PRESSED STEEL DOOR FRAMES			
	Carried to Collection Prepared by Mgiba Consulting		R	

	1,2mm Rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	3		
	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
4	Window type NE1, 533 x 654mm high including burglar bars	No	4		
5	Window type NE7, 1022 x 654mm high including burglar bars	No	1		
	Carried to Collection			R	
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١	Section No. 4				
	Bill No. 8				
	Metalwork				
	COLLECTION				
		Page No		Amount	
	Total Brought Forward from Page No.	117			L
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - GRFD3					
	BILL NO.9					
	PLASTERING					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors and landings	m2	20			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls in pits	m2	43			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - GRFD3			
	BILL NO.10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	ENVIRO-LOO TOILET SYSTEM			
	"Enviro loo" or equal approved			
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	4		
	SANITARY FITTINGS			
	"Vaal" or equal approved			
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		
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

	"Vanstone" or equal approved					
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			
	TAPS, VALVES, ETC					
	"Cobra watertech" or equal approved					
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1			
	"Macneil triumph" or equal approved					
5	15mm Stainless steel Extended bip tap	No	2			
	Carried to Collection			R		
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Section No. 4				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	121			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - GRFD3	3			
	BILL NO.12				
	<u>PAINTWORK</u>				
	PAINTWORK ETC TO NEW WORK				
	ON FIBRE-CEMENT				
	One coat primer and two coats exterior quality PVA emulsion paint				
1	On fascias and barge boards	m2	15		
	ON METAL				
	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				
2	On door frames	m2	4		
3	On windows with burglar bars	m2	4		
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	10		
	ON WOOD				
	Three coats polyurethane semi-gloss varnish				
6	On doors	m2	11		
	Carried Forward to Summary of Section No. 4			R	
	Prepared by Mgiba Consulting				
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	SECTION SUMMARY - Building Works - GRFD3 (three seats + or	e disable 1	f <u>a</u>	
Bill No		Page No		Amount
1	Earthworks	99		
2	Concrete, Formwork and Reinforcement	102		
3	Masonary	106		
4	Waterproofing	107		
5	Roof Coverings	110		
6	Carpentry and Joinery	113		
7	Ironmongery	116		
8	Metalwork	119		
9	Plastering	120		
10	Plumbing and Drainage (Provisional)	123		
11	Glazing	124		
12	Paintwork	125		
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Item No			Quantity	Rate	Amount	
-	BUILDING WORKS - SMD3					
	BILL NO.1					
	EARTHWORKS (PROVISIONAL)					
	SUPPLEMENTARY PREAMBLES					
	Nature of ground					
	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					
	Nature of ground					
	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					
	Carting away of excavated material					
	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					
	SITE CLEARANCE ETC					
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			
	EXCAVATION, FILLING, ETC					
	Carried to Collection			R		_
	Prepared by Mgiba Consulting					_
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	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	8		
4	Holes	m3	28		
5	For aprons thickening	m3	1		
	Extra over trench and hole excavations in earth for excavation in				
6	Soft rock	m3	4		
7	Hard rock	m3	2		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	32		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	69		
	Keeping excavations free of water				
10	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc	m3	9		
12	Backfilling to trenches, holes, etc	m3	4		
	Compaction of surfaces				
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		
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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		
	Prescribed density tests on filling				
16	"Modified AASHTO Density" test	No	4		
	SOIL POISONING				
	Soil insecticide				
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		
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Section No. 5				J L
Bill No. 1				
Earthworks				
COLLECTION				
Total Brought Forward from Page No.	Page No 127 128 129		Amount	
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - SMD3					
	BILL NO.2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
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			
	REINFORCED CONCRETE					
6	Surface beds on waterproofing	m3	3			
7	Slabs including beams and inverted beams	m3	2			
	TEST BLOCKS					
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4			
	CONCRETE SUNDRIES					
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	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	67		
10	Aprons to falls	m2	23		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	9		
13	500mm Diameter opening through 100mm slab	No	4		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	47		
	Carried to Collection			R	
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Section No. 5				
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
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Carried Forward to Summary of Section No. 5		R		
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Item No		Quantity	Rate	Amount	
-	BUILDING WORKS - SMD3				
	BILL NO.3				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	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.				
	<u>User note:</u>				
	The above preamble generally applies for works in hot and humid coastal areas				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	Carried to Collection		R		_
	Prepared by Mgiba Consulting				_

	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	82		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2	150mm Wide reinforcement built in horizontally	m	434		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
4	Half brick walls	m2	14		
5	Half brick walls in beamfilling	m2	2		
6	One brick walls	m2	68		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
7	75mm Wide reinforcement built in horizontally	m	56		
8	150mm Wide reinforcement built in horizontally	m	268		
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	Pair of prestressed fabricated lintels				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	8		
	<u>Turning pieces</u>				
10	220mm Wide turning piece to lintels etc	m	8		
	Galvanised wire ties etc				
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	10		
	Air bricks etc				
12	230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	8		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
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		
	Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces				
16	220mm Wide sill set level and slightly projecting	m	5		
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Section No. 5				
Bill No. 3				
Masonary				
COLLECTION				
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Item No			Quantity	Rate	Amount	İ
	BUILDING WORKS - SMD3					
	BILL NO.4					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	75			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	30			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	17			
4	On brick walls	m2	43			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - SMD3				
	BILL NO.5				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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		
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	35		
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	m	8		
4	Extra over eaves gutter for stopped end	No	2		
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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 pl	linth offset	No	2		
		Carried to Collection			R	
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Section No. 5			
Bill No. 5			
Roof Coverings			
COLLECTION			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - SMD3			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	ROOFS ETC			
	Plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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			
	PLATE NAILED ROOF TRUSS CONSTRUCTION			
1	Prefabricated timber trusses with pitch not exceeding 25 degrees 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
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	Prepared by Mgiba Consulting			

	Sundries				
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		
	EAVES, VERGES, ETC				
	"Everite Flexit" or equal approved pressed nutec- cement				
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23		
	DOORS ETC				
	Wrought meranti doors hung to steel frames				
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		
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Section No. 5				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
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Item No		Q	uantity	Rate	Amount	
	BUILDING WORKS - SMD3					
	BILL NO.7					
	IRONMONGERY					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery					
	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					
	CATCHES, CABIN HOOKS, ETC					
	"Union" or equal approved					
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2			
	LOCKS					
	"Union" or equal approved					
2	Three lever lockset	No	2			
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3	Indicator bolt with keep fixed to metal	No	3			
	LETTERS, NAMEPLATES, ETC					
	"Solid" or equal approved					
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	2			
	BATHROOM FITTINGS					
	"Steiner" or equal approved					
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 holing capacity with a sensor unit fixed to wall	No	2			
	"Vaal Paragon"					
7	32mm Type 9 back grab rail 800mm long plugged	No	1			
8	32mm Type 8 side grab rail 900mm girth plugged	No	1			
	SUNDRIES					
	"Solid"					
9	38mm Diameter rubber door stop plugged	No	2			
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Section No. 5				1
Bill No. 7				
Ironmongery				
COLLECTION				
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Item No		Qu	uantity	Rate	Amount	
1	BUILDING WORKS - SMD3					
	BILL NO.8					
	METALWORK					
	SUPPLEMENTARY PREAMBLES					
	<u>Descriptions</u>					
	Descriptions of bolts shall be deemed to include nuts and washers					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete					
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described					
	WELDED SCREENS, GATES, ETC					
	Screens and gates					
1	Single gate and frame for opening 813×2032 mm high overall, the outer frame of $50 \times 50 \times 2,5$ mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 800×2038 mm high of $60 \times 40 \times 2,0$ mm hollow section frame with two $60 \times 40 \times 2,0$ mm hollow section horizontal rails with 20mm diameter vertical rods at 110mm centers with 25mm diameter $\times 80$ mm long pin hinge, complete with 5pin upright double throw security mortice deadlock in 3mm steel plate housing	No	2			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls					
2	Frame for door 813 x 2032mm high	No	3			
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	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
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		
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Section No. 5				
Bill No. 8				
Metalwork				
COLLECTION				
	Page No		Amount	
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - SMD3					
	BILL NO.9					
	PLASTERING					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors and landings	m2	26			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls in pits	m2	43			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - SMD3			
	BILL NO.10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	ENVIRO-LOO TOILET SYSTEM			
	"Enviro loo" or equal approved			
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	4		
	ENVIRO-LOO URINAL AND EVAPORATIVE SYSTEM			
	"Enviro loo" or equal approved			
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	1		
	SANITARY FITTINGS			
	Carried to Collection		R	
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	"Vaal" or equal approved					
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			
	"Vanstone" or equal approved					
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			
	TAPS, VALVES, ETC					
	"Cobra watertech" or equal approved					
5	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1			
	"Macneil triumph" or equal approved					
6	15mm Stainless steel Extended bip tap	No	2			
	Carried to Collection			R		
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Section No. 5				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - SMD3					
	BILL NO.12					
	<u>PAINTWORK</u>					
	PAINTWORK ETC TO NEW WORK					
	ON FIBRE-CEMENT					
	One coat primer and two coats exterior quality PVA emulsion paint					
1	On fascias and barge boards	m2	23			
	ON METAL					
	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					
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			
	ON WOOD					
	Three coats polyurethane semi-gloss varnish					
6	On doors	m2	11			
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	SECTION SUMMARY - Building Works - SMD3 (three seats + one	disable fa	l <u>c</u>	
Bill No		Page No		Amount
1	Earthworks	130		
2	Concrete, Formwork and Reinforcement	133		
3	Masonary	137		
4	Waterproofing	138		
5	Roof Coverings	141		
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7	Ironmongery	147		
8	Metalwork	150		
9	Plastering	151		
10	Plumbing and Drainage (Provisional)	154		
11	Glazing	155		
12	Paintwork	156		
	Carried to Final Summary Prepared by Mgiba Consulting		R	

BUILDING WORKS - SFD4 BILL NO.1 EARTHWORKS (PROVISIONAL) SUPPLEMENTARY PREAMBLES Nature of ground 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 Nature of ground 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 Carting away of excavated material 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 SITE CLEARANCE ETC 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	Item No			Quantity	Rate	Amount
EARTHWORKS (PROVISIONAL) SUPPLEMENTARY PREAMBLES Nature of ground 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 Nature of ground 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 Carting away of excavated material 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 SITE CLEARANCE ETC 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2 Stripping average 100mm thick layer of top soil and		BUILDING WORKS - SFD4				
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Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2 Stripping average 100mm thick layer of top soil and		be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively,				
hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2 108 2 Stripping average 100mm thick layer of top soil and		SITE CLEARANCE ETC				
	1	hedges, shrubs and trees not exceeding 200mm girth,	m2	108		
	2		m2	108		
Carried to Collection		Carried to Collection			R	
Prepared by Mgiba Consulting		Prepared by Mgiba Consulting				

	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	13		
4	Holes	m3	23		
5	For aprons thickening	m3	1		
	Extra over trench and hole excavations in earth for excavation in				
6	Soft rock	m3	4		
7	Hard rock	m3	2		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	30		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	49		
	Keeping excavations free of water				
10	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc	m3	6		
12	Backfilling to trenches, holes, etc	m3	6		
	Consider Collection			В	_
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	Prepared by Mgiba Consulting				

]	Compaction of surfaces				
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		
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		
	Prescribed density tests on filling				
16	"Modified AASHTO Density" test	No	4		
	SOIL POISONING				
	Soil insecticide				
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 to Collection Prepared by Mgiba Consulting			R	

Section No. 6				i l
Bill No. 1				Ì
Earthworks				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	158			
	159			
	160			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - SFD4				
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE				
	25MPa/19mm concrete				
1	Strip footings	m3	4		
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	22		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	25		
	REINFORCED CONCRETE				
6	Surface beds on waterproofing	m3	2		
7	Slabs including beams and inverted beams	m3	1		
	TEST BLOCKS				
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	CONCRETE SUNDRIES				
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	49		
10	Aprons to falls	m2	25		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	42		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	11		
13	500mm Diameter opening through 100mm slab	No	5		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	34		
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	Prepared by Mgiba Consulting				
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Section No. 6	•			
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	162			
	163			
Carried Forward to Summary of Section No. 6		R		
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
	BUILDING WORKS - SFD4				
	BILL NO.3				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	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.				
	<u>User note:</u>				
	The above preamble generally applies for works in hot and humid coastal areas				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
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	Carried to Collection		R		_
	Prepared by Mgiba Consulting				

j	<u>Pointing</u>					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
	BRICKWORK					
	FOUNDATIONS (PROVISIONAL)					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar					
1	One brick walls	m2	81			
	BRICKWORK SUNDRIES					
	Brickwork reinforcement					
2	150mm Wide reinforcement built in horizontally	m	475			
	FACE BRICKWORK					
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints					
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	5			
	SUPERSTRUCTURE					
	Brickwork of NFP bricks in class II mortar					
4	Half brick walls	m2	14			
5	Half brick walls in beamfilling	m2	2			
6	One brick walls	m2	62			
	BRICKWORK SUNDRIES					
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	Prepared by Mgiba Consulting					
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	Brickwork reinforcement			
7	75mm Wide reinforcement built in horizontally	m	56	
8	150mm Wide reinforcement built in horizontally	m	245	
	Pair of prestressed fabricated lintels			
9	110 x 75mm Lintels in lengths not exceeding 3m	m	7	
	Turning pieces			
10	220mm Wide turning piece to lintels etc	m	6	
	Galvanised wire ties etc			
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	8	
	Air bricks etc			
12	230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	6	
	FACE BRICKWORK			
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints			
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	
	Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces			
16	220mm Wide sill set level and slightly projecting	m	4	
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	Prepared by Mgiba Consulting			

Section No. 6				
Bill No. 3				
Masonary				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	165			
	166			
	167			
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - SFD4					
	BILL NO.4					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	68			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	19			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	15			
4	On brick walls	m2	52			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - SFD4				
	BILL NO.5				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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		
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc	m2	31		
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	m	7		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

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 to Collection			R	
	Prepared by Mgiba Consulting				

Sec	tion No. 6				
Bill	No. 5				
Roc	of Coverings				
CO	LLECTION				
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	Carried Forward to Summary of Section No. 6		R		
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - SFD4				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	<u>Fixing</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	ROOFS ETC				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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				
	PLATE NAILED ROOF TRUSS CONSTRUCTION				
	Carried to Collection		R		_
	Prepared by Mgiba Consulting				_

	Prefabricated timber trusses with pitch not exceeding 25 degrees				
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
	<u>Sundries</u>				
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		
	EAVES, VERGES, ETC				
	"Everite Flexit" or equal approved pressed nutec- cement				
6	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	17		
	DOORS ETC				
	Wrought meranti doors hung to steel frames				
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		
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Section No. 6				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
Total Brought Forward from Page No.	Page No 173 174		Amount	
Carried Forward to Summary of Section No. 6		R		
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
	BUILDING WORKS - SFD4				
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
	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 bronze AG Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded CATCHES, CABIN HOOKS, ETC				
	"Union" or equal approved				
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	2			
	LOCKS				
	"Union" or equal approved				
2	Three lever lockset No	2			
	Carried to Collection		R		
	Prepared by Mgiba Consulting				

3	Indicator bolt with keep fixed to metal	No	4			
	LETTERS, NAMEPLATES, ETC					
	"Solid" or equal approved					
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol					
		No	2			
	BATHROOM FITTINGS					
	"Steiner" or equal approved					
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 holing 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			
	"Vaal Paragon"					
8	32mm Type 9 back grab rail 800mm long plugged	No	1			
9	32mm Type 8 side grab rail 900mm girth plugged	No	1			
	SUNDRIES					
	"Solid"					
10	38mm Diameter rubber door stop plugged	No	2			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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Section No. 6				
Bill No. 7				
Ironmongery				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	176			
	177			
Carried Forward to Summary of Section No. 6		R		
Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount
	BUILDING WORKS - SFD4			
	BILL NO.8			
	METALWORK			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described			
	WELDED SCREENS, GATES, ETC			
	Screens and gates			
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	2		
	PRESSED STEEL DOOR FRAMES			
	Carried to Collection Prepared by Mgiba Consulting		R	

	1,2mm Rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	4		
	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
4	Window type NE1, 533 x 654mm high including burglar bars	No	5		
5	Window type NE7, 1022 x 654mm high including burglar bars	No	1		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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Section No. 6				
Bill No. 8				
Metalwork				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	179			
	180			
Carried Forward to Summary of Section No. 6		R		
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - SFD4					
	BILL NO.9					
	PLASTERING					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors and landings	m2	24			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls in pits	m2	52			
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	Prepared by Mgiba Consulting					

Item No		Quantity	Rate	Amount
1	BUILDING WORKS - SFD4			
	BILL NO.10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	ENVIRO-LOO TOILET SYSTEM			
	"Enviro loo" or equal approved			
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	5		
	SANITARY FITTINGS			
	"Vaal" or equal approved			
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		
	Carried to Collection		R	
	Carried to Collection			
	Prepared by Mgiba Consulting			

	"Vanstone" or equal approved				
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		
	TAPS, VALVES, ETC				
	"Cobra watertech" or equal approved				
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1		
	"Macneil triumph" or equal approved				
5	15mm Stainless steel Extended bip tap	No	2		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

Section No. 6				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	183			
	184			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - SFD4			
	BILL NO.11			
	<u>GLAZING</u>			
	GLAZING TO STEEL WITH PUTTY			
	6.28 mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m2	2		
	Carried Forward to Summary of Section No. 6		R	
	Prepared by Mgiba Consulting			

Item No			Quantity	Rate	Amount
	BUILDING WORKS - SFD4				
	BILL NO.12				
	<u>PAINTWORK</u>				
	PAINTWORK ETC TO NEW WORK				
	ON FIBRE-CEMENT				
	One coat primer and two coats exterior quality PVA emulsion paint				
1	On fascias and barge boards	m2	17		
	ON METAL				
	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				
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		
	ON WOOD				
	Three coats polyurethane semi-gloss varnish				
6	On doors	m2	13		
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Bill No Page No Amount 1 Earthworks 161 2 Concrete, Formwork and Reinforcement 164 3 Masonary 168 4 Waterproofing 169 5 Roof Coverings 172 6 Carpentry and Joinery 175 7 Ironmongery 178 8 Metalwork 181 9 Plastering 182 10 Plumbing and Drainage (Provisional) 185	
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Item No			Quantity	Rate	Amount	
-	BUILDING WORKS - MD5					
	BILL NO.1					
	EARTHWORKS (PROVISIONAL)					
	SUPPLEMENTARY PREAMBLES					
	Nature of ground					
	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					
	Nature of ground					
	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					
	Carting away of excavated material					
	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					
	SITE CLEARANCE ETC					
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			
	EXCAVATION, FILLING, ETC					
	Carried to Collection			R		_
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	Excavation in earth not exceeding 2m deep]			
3	Trenches	m3	8			
4	Holes	m3	36			
5	For aprons thickening	m3	2			
	Extra over trench and hole excavations in earth for excavation in					
6	Soft rock	m3	5			
7	Hard rock	m3	2			
	Extra over all excavations for carting away					
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	41			
	Risk of collapse of excavations					
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	84			
	Keeping excavations free of water					
10	Keeping excavations free of all water other than subterranean water		Item			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density					
11	Under floors, steps, pavings, etc	m3	13			
12	Backfilling to trenches, holes, etc	m3	5			
	Compaction of surfaces					
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	55			
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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	22		
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	31		
	Prescribed density tests on filling				
16	"Modified AASHTO Density" test	No	4		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	43		
18	To bottoms and sides of trenches etc	m2	36		
19	To bottoms of concrete aprons etc	m2	31		
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	Carried to Collection			R	
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Section No. 7				
Bill No. 1				
Earthworks				
COLLECTION				
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - MD5					
	BILL NO.2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
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	33			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	31			
	REINFORCED CONCRETE					
6	Surface beds on waterproofing	m3	4			
7	Slabs including beams and inverted beams	m3	2			
	TEST BLOCKS					
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4			
	CONCRETE SUNDRIES					
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	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	92		
10	Aprons to falls	m2	31		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	69		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	13		
13	500mm Diameter opening through 100mm slab	No	6		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	65		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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Section No. 7				
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
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	Quantity	Rate	Amount
BUILDING WORKS - MD5			
BILL NO.3			
SUPPLEMENTARY PREAMBLES			
BRICKWORK			
Sizes in descriptions			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
Hollow walls etc			
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.			
<u>User note:</u>			
The above preamble generally applies for works in hot and humid coastal areas			
Face bricks			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Pointing			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
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Item No

1	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	94		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2	150mm Wide reinforcement built in horizontally	m	508		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	3		
	<u>SUPERSTRUCTURE</u>				
	Brickwork of NFP bricks in class II mortar				
4	Half brick walls	m2	24		
5	Half brick walls in beamfilling	m2	3		
6	One brick walls	m2	88		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
7	75mm Wide reinforcement built in horizontally	m	94		
8	150mm Wide reinforcement built in horizontally	m	346		
	Carried to Collection			R	
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	Pair of prestressed fabricated lintels				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	10		
	Turning pieces				
10	220mm Wide turning piece to lintels etc	m	11		
	Galvanised wire ties etc				
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	14		
	Air bricks etc				
12	230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	11		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
13	Extra over brickwork for face brickwork pointed on both sides	m2	115		
14	Extra over brickwork for brick-on-edge header course lintel	m	14		
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5		
	Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces				
16	220mm Wide sill set level and slightly projecting	m	7		
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Section No. 7				
Bill No. 3				
Masonary				
COLLECTION				
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Item No			Quantity	Rate	Amount	
"	BUILDING WORKS - MD5					
	BILL NO.4					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	98			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	43			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	22			
4	On brick walls	m2	60			
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - MD5				
	BILL NO.5				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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 m	2 52			
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc m	2 52			
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	n 12			
4	Extra over eaves gutter for stopped end N	0 2			
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5	Extra over eaves gutter for outlet for 75 x 100mm pip	e 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		
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Section No. 7				
Bill No. 5				
Roof Coverings				
COLLECTION				
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - MD5			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	ROOFS ETC			
	Plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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			
	PLATE NAILED ROOF TRUSS CONSTRUCTION			
	Prefabricated timber trusses with pitch not exceeding 25 degrees			
1	Allow the provisional sum of R 18 500.00 for supply and complete installation of roof trusses including all necessary bracing, gang boarding, purlins, splayed eaves purlins, wall plates, etc.,	Item		18 500 00
2	Profit and attendance on the above item	Item		3 600 00
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

<u>Sundries</u>					ı
Two coats creosote on sawn timbers	m2	3			I
6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14			l
Hurricane clips	No	6			I
EAVES, VERGES, ETC					I
"Everite Flexit" or equal approved pressed nutec- cement					
15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	31			
DOORS ETC					I
Wrought meranti doors hung to steel frames					1
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			
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	5			1
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Carried to Collection			R		
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					1
	Two coats creosote on sawn timbers 6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together Hurricane clips EAVES, VERGES, ETC "Everite Flexit" or equal approved pressed nuteccement 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips DOORS ETC Wrought meranti doors hung to steel frames 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 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 Carried to Collection	Two coats creosote on sawn timbers 6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together No Hurricane clips No EAVES, VERGES, ETC "Everite Flexit" or equal approved pressed nuteccement 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips m DOORS ETC Wrought meranti doors hung to steel frames 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 A4mm 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 Carried to Collection	Two coats creosole on sawn timbers m2 3 6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together No 14 Hurricane clips No 6 EAVES, VERGES, ETC "Everite Flexit" or equal approved pressed nuteccement 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips m 31 DOORS ETC Wrought meranti doors hung to steel frames 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 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 5 Carried to Collection	Two coats creosote on sawn timbers m2 6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together No 14 Hurricane clips No 6 EAVES, VERGES, ETC "Everite Flexit" or equal approved pressed nuteccement 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips m 31 DOORS ETC Wrought meranti doors hung to steel frames 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 Carried to Collection R	Two coals creosote on sawn timbers m2 3 6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends ted together No 14 Hurricane clips No 6 EAVES, VERGES, ETC "Everite Flexit" or equal approved pressed nuteccement 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips m 31 DOORS ETC Wrought meranti doors hung to steel frames 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 rall filled in with 22mm V-jointed one side boarding and covered on other side and including rebates all round No 3 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 rall filled in with 22mm V-jointed one side boarding and covered on other side and including rebates all round No 5 Carried to Collection R

Section No. 7				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - MD5			
	BILL NO.7			
	IRONMONGERY			
	SUPPLEMENTARY PREAMBLES			
	Finishes to ironmongery			
	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 CATCHES, CABIN HOOKS, ETC			
	"Union" or equal approved			
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	3		
	LOCKS			
	"Union" or equal approved			
2	Three lever lockset No	3		
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

3	Indicator bolt with keep fixed to metal	No	5		
	LETTERS, NAMEPLATES, ETC				
	"Solid" or equal approved				
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	3		
	BATHROOM FITTINGS				
	"Steiner" or equal approved				
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 holing capacity with a sensor unit fixed to wall	No	3		
	"Kimberley-Clark"				
7	Lockable toilet roll holder plugged	No	6		
	"Vaal Paragon"				
8	32mm Type 9 back grab rail 800mm long plugged	No	1		
9	32mm Type 8 side grab rail 900mm girth plugged	No	1		
	SUNDRIES				
	"Solid"				
10	38mm Diameter rubber door stop plugged	No	3		
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	Prepared by Mgiba Consulting				
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Section No. 7				
Bill No. 7				
Ironmongery				
COLLECTION				
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - MD5					
	BILL NO.8					
	METALWORK					
	SUPPLEMENTARY PREAMBLES					
	<u>Descriptions</u>					
	Descriptions of bolts shall be deemed to include nuts and washers					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete					
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described					
	WELDED SCREENS, GATES, ETC					
	Screens and gates					
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			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls					
2	Frame for door 813 x 2032mm high	No	5			
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	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	3		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
4	Window type NE1, 533 x 654mm high including burglar bars	No	8		
5	Window type NE7, 1022 x 654mm high including burglar bars	No	3		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

Section No. 7				
Bill No. 8				
Metalwork				
COLLECTION				
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - MD5					
	BILL NO.9					
	PLASTERING					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors and landings	m2	37			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls in pits	m2	60			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - MD5				
	BILL NO.10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions				
	ENVIRO-LOO TOILET SYSTEM				
	"Enviro loo" or equal approved				
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	6		
	ENVIRO-LOO URINAL AND EVAPORATIVE				
	SYSTEM				
	"Enviro loo" or equal approved				
2	"Urinal evaporative tank system" installed to manufactures specification complete with urinal evaporative tank, ventilation extraction unit, outlet vent pipe, vent pipe bracket, six (6) urinal bowls and bag of mounting screws	No	1		
3	"Urinal evaporative tank system" installed to manufactures specification complete with urinal evaporative tank, ventilation extraction unit, outlet vent pipe, vent pipe bracket, five (5) urinal bowls and bag of mounting screws	No	1		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

SANITARY FITTINGS					
"Vaal" or equal approved					
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			
"Vanstone" or equal approved					
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			
TAPS, VALVES, ETC					
"Cobra watertech" or equal approved					
15mm COB-NM-851 single lever elbow action basin mixer tap	No	1			
"Macneil triumph" or equal approved					
15mm Stainless steel Extended bip tap	No	4			
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Carried to Collection			K		<u> </u>
Prepared by Mgiba Consulting					
	"Vaal" or equal approved 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) "Vanstone" or equal approved 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) TAPS, VALVES, ETC "Cobra watertech" or equal approved 15mm COB-NM-851 single lever elbow action basin mixer tap "Macneil triumph" or equal approved 15mm Stainless steel Extended bip tap Carried to Collection	"Vaal" or equal approved 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 "Vanstone" or equal approved 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 TAPS, VALVES, ETC "Cobra watertech" or equal approved 15mm COB-NM-851 single lever elbow action basin mixer tap No "Macneil triumph" or equal approved 15mm Stainless steel Extended bip tap No Carried to Collection	"Vaal" or equal approved 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 "Vanstone" or equal approved 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 TAPS, VALVES, ETC "Cobra watertech" or equal approved 15mm COB-NM-851 single lever elbow action basin mixer tap No 1 "Macneil triumph" or equal approved 15mm Stainless steel Extended bip tap No 4	"Vaal" or equal approved 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 eisewhere) No "Vanstone" or equal approved 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 TAPS, VALVES, ETC "Cobra watertech" or equal approved 15mm COB-NM-851 single lever elbow action basin mixer tap No 1 "Macnell triumph" or equal approved 15mm Stainless steel Extended bip tap No A Carried to Collection R	"Vaal" or equal approved 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 "Vanstone" or equal approved 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 TAPS, VALVES, ETC "Cobra watertech" or equal approved 15mm COB-NM-851 single lever elbow action basin mixer tap No 1 "Macnell triumph" or equal approved 15mm Stainless steel Extended bip tap No 4

Section No. 7				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	214			
	215			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - MD5			
	BILL NO.11			
	GLAZING			
	GLAZING TO STEEL WITH PUTTY			
	6.28 mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m	2 5		
	Carried Forward to Summary of Section No. 7		R	
	Prepared by Mgiba Consulting			

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - MD5					
	BILL NO.12					
	<u>PAINTWORK</u>					
	PAINTWORK ETC TO NEW WORK					
	ON FIBRE-CEMENT					
	One coat primer and two coats exterior quality PVA emulsion paint					
1	On fascias and barge boards	m2	31			
	ON METAL					
	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					
2	On door frames	m2	6			
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	16			
	ON WOOD					
	Three coats polyurethane semi-gloss varnish					
6	On doors	m2	17			
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	Carried Forward to Summary of Section No. 7			R		_
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	SECTION SUMMARY - Building Works - MD5 (five seats + one di	sable facili	<u>t</u>	
Bill No		Page No		Amount
1	Earthworks	192		
2	Concrete, Formwork and Reinforcement	195		
3	Masonary	199		
4	Waterproofing	200		
5	Roof Coverings	203		
6	Carpentry and Joinery	206		
7	Ironmongery	209		
8	Metalwork	212		
9	Plastering	213		
10	Plumbing and Drainage (Provisional)	216		
11	Glazing	217		
12	Paintwork	218		
	Carried to Final Summary		R	
	Prepared by Mgiba Consulting			

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - FD9					
	BILL NO.1					
	EARTHWORKS (PROVISIONAL)					
	SUPPLEMENTARY PREAMBLES					
	Nature of ground					
	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					
	Nature of ground					
	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					
	Carting away of excavated material					
	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					
	SITE CLEARANCE ETC					
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			
	EXCAVATION, FILLING, ETC					
	Carried to Collection			R		_
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	Excavation in earth not exceeding 2m deep					
3	Trenches	m3	14			
4	Holes	m3	41			
5	For aprons thickening	m3	2			
	Extra over trench and hole excavations in earth for excavation in					
6	Soft rock	m3	5			
7	Hard rock	m3	3			
	Extra over all excavations for carting away					
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	48			
	Risk of collapse of excavations					
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	92			
	Keeping excavations free of water					
10	Keeping excavations free of all water other than subterranean water		Item			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density					
11	Under floors, steps, pavings, etc	m3	11			
12	Backfilling to trenches, holes, etc	m3	6			
	Compaction of surfaces					
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	57			
	Carried to Collection			R		
	Carried to Collection			К		<u></u>
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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	26		
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	35		
	Prescribed density tests on filling				
16	"Modified AASHTO Density" test	No	4		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	37		
18	To bottoms and sides of trenches etc	m2	59		
19	To bottoms of concrete aprons etc	m2	35		
	Carried to Collection			R	
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Section No. 8				
Bill No. 1				
Earthworks				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	220			
	221			
	222			
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - FD9					
	BILL NO.2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
1	Strip footings	m3	5			
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	41			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	35			
	REINFORCED CONCRETE					
6	Surface beds on waterproofing	m3	4			
7	Slabs including beams and inverted beams	m3	3			
	TEST BLOCKS					
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4			
	CONCRETE SUNDRIES					
	Carried to Collection			R		
	Carried to Collection			K		
	Prepared by Mgiba Consulting					
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	Finishing top surfaces of concrete smooth with a wood float				
9	Surface beds, slabs, etc	m2	83		
10	Aprons to falls	m2	35		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	63		
	Permenent formwork to soffits				
12	Slabs propped up not exceeding 1.5m high	m2	21		
13	500mm Diameter opening through 100mm slab	No	10		
	Fabric reinforcement				
14	Mesh ref no. 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	63		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

Section No. 8				
Bill No. 2				
Concrete, Formwork and Reinforcement				
COLLECTION				
	Page No		Amount	
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	225			
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Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
	BUILDING WORKS - FD9				
	BILL NO.3				
	MASONARY				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	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.				
	<u>User note:</u>				
	The above preamble generally applies for works in hot and humid coastal areas				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Carried to Collection		R		
	Prepared by Mgiba Consulting				
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	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m2	114		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2	150mm Wide reinforcement built in horizontally	m	652		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
3	Extra over brickwork for face brickwork in foundations (Provisional)	m2	5		
					1
	SUPERSTRUCTURE				
	SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar				
4		m2	24		
4 5	Brickwork of NFP bricks in class II mortar	m2 m2	24		
	Brickwork of NFP bricks in class II mortar Half brick walls				
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling	m2	3		
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls	m2	3		
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls	m2	3		
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls	m2	3		
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls	m2	3	R	
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls BRICKWORK SUNDRIES Carried to Collection	m2	3	R	
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls BRICKWORK SUNDRIES	m2	3	R	
5	Brickwork of NFP bricks in class II mortar Half brick walls Half brick walls in beamfilling One brick walls BRICKWORK SUNDRIES Carried to Collection	m2	3	R	

	Brickwork reinforcement				
7	75mm Wide reinforcement built in horizontally	m	96		
8	150mm Wide reinforcement built in horizontally	m	344		
	Pair of prestressed fabricated lintels				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	12		
	Turning pieces				
10	220mm Wide turning piece to lintels etc	m	13		
	Galvanised wire ties etc				
11	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	14		
	Air bricks etc				
12	230 x 152mm "Terra-colts" or equal approved vermin proof air brick including making good to reveals	No	13		
	FACE BRICKWORK				
	"Nebraska" or equal approved face bricks pointed with flush horizontal and vertical joints				
13	Extra over brickwork for face brickwork pointed on both sides	m2	115		
14	Extra over brickwork for brick-on-edge header course lintel	m	19		
15	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	6		
	Brick-on-edge header course copings, sills, etc of ? face bricks pointed with recessed joints on all exposed faces				
16	220mm Wide sill set level and slightly projecting	m	8		
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Section No. 8				
Bill No. 3				
Masonary				
COLLECTION				
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Total Brought Forward from Page No.	227			
	228			
	229			
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Item No			Quantity	Rate	Amount	
	BUILDING WORKS - FD9					
	BILL NO.4					
	WATERPROOFING					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	99			
	One layer of 250 micron "Consol Plastics Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	37			
	DAMP-PROOFING OF WALLS AND FLOORS					
	Two coats "Flintkote Type 5" bitumen emulsion waterproof coating					
3	On concrete floors	m2	26			
4	On brick walls	m2	95			
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - FD9				
	BILL NO.5				
	ROOF COVERINGS				
	PREAMBLES				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	PROFILED METAL SHEETING AND ACCESSORIES				
	PROFILED METAL SHEETING AND ACCESSORIES				
	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 m:	2 52			
	ROOF AND WALL INSULATION				
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
2	Insulation laid taut over rafters and fixed concurrent with purlins, etc m:	52			
	RAINWATER DISPOSAL				
	100mm Aluminium zinc seamless				
3	100 x 100mm Eaves gutters	12			
	Carried to Collection		R		-
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	Prepared by Mgiba Consulting				

4	Extra over eaves gutter for stopped end	N	0	2		
5	Extra over eaves gutter for outlet for 75 x 100	mm pipe N	О	2		
6	75 x 100mm Rainwater pipes	1	n	5		
7	Extra over rainwater pipe for shoe	N	О	2		
8	Extra over rainwater pipe for eaves or plinth o	offset N	О	2		
						<u> </u>
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	Prepared by Mgiba Consulting					
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Section No. 8				1
Bill No. 5				
Roof Coverings				
COLLECTION				
	Page		Amount	
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	233			 I
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - FD9			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	ROOFS ETC			
	Plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum ?mm centres Roof covering is ? on purlins/battens Ceilings are ?mm sheeting (with skimming?) on ? x ?mm 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			
	PLATE NAILED ROOF TRUSS CONSTRUCTION			
	Prefabricated timber trusses with pitch not exceeding 25 degrees			
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		Not Priced
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

	<u>Sundries</u>					
2	Two coats creosote on sawn timbers	m2	3			
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14			
4	Hurricane clips	No	8			
	EAVES, VERGES, ETC					
	"Everite Flexit" or equal approved pressed nutec- cement					
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	27			
	DOORS ETC					
	Wrought meranti doors hung to steel frames					
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	3			
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	9			
	Carried to Collection			R		
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Section No. 8				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
	Page No		Amount	
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Prepared by Mgiba Consulting				

Item No		Quantity	Rate	Amount	
۰	BUILDING WORKS - FD9				
	BILL NO.7				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
1	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 black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded CATCHES, CABIN HOOKS, ETC "Union" or equal approved 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	3			
	LOCKS				
	"Union" or equal approved				
2	Three lever lockset No	3			
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3	Indicator bolt with keep fixed to metal	No	9			
	LETTERS, NAMEPLATES, ETC					
	"Solid" or equal approved					
4	152 x 152mm Anodised aluminium plate with male or female or paraplegic symbol	No	3			
	BATHROOM FITTINGS					
	"Steiner" or equal approved					
5	Lockable "crystalline range" aluminium three(3) roll toilet holder fixed to brick wall	No	17			
6	Lockable 'crystalline range" aluminium soap dispenser size 135 x 110 x 275mm high 1.3l holing capacity with a sensor unit fixed to wall	No	4			
7	Wall mounted "crystalline range" aluminium She bin 420 x 125 x 600mm high with a central opening lid	No	16			
	"Vaal Paragon"					
	SUNDRIES					
	"Solid"					
8	38mm Diameter rubber door stop plugged	No	3			
	Carried to Collection			R		
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Section No. 8				
Bill No. 7				
Ironmongery				
COLLECTION				
	Page No		Amount	
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	239			
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Item No			Quantity	Rate	Amount
	BUILDING WORKS - FD9				
	BILL NO.8				
	METALWORK				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	WELDED SCREENS, GATES, ETC				
	Screens and gates				
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		
	PRESSED STEEL DOOR FRAMES				
	1,2mm Rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	9		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	3		
	STEEL WINDOWS, DOORS, ETC				
	Standard school windows				
4	Window type NE1, 533 x 654mm high including burglar bars	No	10		
5	Window type NE7, 1022 x 654mm high including burglar bars	No	3		
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	Carried to Collection			R	_
	Prepared by Mgiba Consulting				

Section No. 8				
Bill No. 8				
Metalwork				
COLLECTION				
	Page No		Amount	
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	242			
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Prepared by Mgiba Consulting				

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - FD9					
	BILL NO.9					
	PLASTERING					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors and landings	m2	43			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls in pits	m2	95			
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Item No		Quantity	Rate	Amount
	BUILDING WORKS - FD9			
	BILL NO.10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
	ENVIRO-LOO TOILET SYSTEM			
	"Enviro loo" or equal approved			
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	10		
	SANITARY FITTINGS			
	"Vaal" or equal approved			
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)	1		
	"Vanstone" or equal approved	'		
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	3		
	Carried to Collection		R	
	Prepared by Mgiba Consulting			

	TAPS, VALVES, ETC				
4	15mm COB-NM-851 single lever elbow action basin mixer tap	No	1		
	"Macneil triumph" or equal approved				
5	15mm Stainless steel Extended bip tap	No	6		
	Carried to Collection			R	_
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	Prepared by Mgiba Consulting				

١	Section No. 8				
	Bill No. 10				
	Plumbing and Drainage (Provisional)				
	COLLECTION				
		Page No		Amount	
	Total Brought Forward from Page No.	245			
		246			
	Carried Forward to Summary of Section No. 8		R		
	Prepared by Mgiba Consulting				
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Item No		Quantity	Rate	Amount	
	BUILDING WORKS - FD9				
	BILL NO.11				
	GLAZING				
	GLAZING TO STEEL WITH PUTTY				
1	6.28 mm Obscure safety glass Panes not exceeding 0.1 m2 m2	2 5			
'	Panes not exceeding 0,1 m2 m3	2 3			
	Carried Forward to Summary of Section No. 8		R		-
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	Prepared by Mgiba Consulting				

Item No			Quantity	Rate	Amount	
	BUILDING WORKS - FD9					
	BILL NO.12					
	<u>PAINTWORK</u>					
	PAINTWORK ETC TO NEW WORK					
	ON FIBRE-CEMENT					
	One coat primer and two coats exterior quality PVA emulsion paint					
1	On fascias and barge boards	m2	27			
	ON METAL					
	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					
2	On door frames	m2	8			
3	On windows with burglar bars	m2	11			
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			
	ON WOOD					
	Three coats polyurethane semi-gloss varnish					
6	On doors	m2	24			
						_
	Carried Forward to Summary of Section No. 8			R		_
	Prepared by Mgiba Consulting					•

Bill No	SECTION SUMMARY - Building Works - FD9	Page No		Amount	
1	Earthworks	223			_
2	Concrete, Formwork and Reinforcement	226			_
3	Masonary	230			_
4	Waterproofing	231			_
5	Roof Coverings	234			_
6	Carpentry and Joinery	237			_
7	Ironmongery	240			_
8	Metalwork	243			_
9	Plastering	244			_
10	Plumbing and Drainage (Provisional)	247			_
11	Glazing	248			_
12	Paintwork	249			_
	Carried to Final Summary Prepared by Mgiba Consulting		R		

Item No			Quantity	Rate	Amount	
	SECTION NO. 3					
	BILL NO. 1					
	EXTERNAL WORKS					
	PREAMBLES					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
	SUPPLEMENTARY PREAMBLES					
	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					
	PAVED WALKWAYS					
	EXCAVATION, FILLING, ETC					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	264			
	<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	264			
	Carried to Collection			R		_
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	Prepared by Mgiba Consulting					

	Compaction of surfaces					
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	Q	264			
	AASHTO density	m2	204			
	Prescribed density tests on filling		_			
4	"Modified AASHTO Density" tests	No	5			
	SOIL POISONING					
	Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions					
5	Under paving, etc	m2	264			
	Approved soil poisoning applied under a 10 year guarantee					
6	Soil insecticide applied and mixed in the proportion and rate as specified under floors	m2	264			
	PAVING					
	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					
7	Paving in herringbone bond in walkways	m2	264			
8	220mm Wide brick-on-edge header course edging on					
	80mm thick mortar bed	m	433			
	Carried to Collection			R		
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	Prepared by Mgiba Consulting					
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	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing					
9	Garden kerb (figure 12) 50 x 100 x 200mm high unreinforced concrete, bedded in concrete, including					
	excavation, backfilling, etc	m	217			
10	Mountable kerb (figure 8c) 275 x 300 x 200mm high unreinforced concrete, bedded in concrete, including excavation, backfilling, etc	m	217			
	Extra over for cutting units to fit edge retraints					
11	Cutting units to fit edge retraints	m	43			
	IN-SITU STORMWATER CHANNELS					
	EXCAVATIONS (PROVISIONAL)					
	Excavate in earth not exceeding 2m deep					
12	Shallow trenches with sloping sides	m3	13			
	Extra over trench and hole excavations in earth for excavations in					
13	Soft rock	m3	2			
14	Hard rock	m3	1			
	Extra over all excavations for carting away					
15	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21			
	FILLING					
	Couried to Collection			D		
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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	Compaction of surfaces				
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		
	UNREINFORCED CONCRETE				
	25MPa/19mm concrete				
17	Bottom and sides of stormwater channels	m3	21		
	SUNDRIES				
	Finishing top surfaces of concrete smooth with a steel float				
18	Surfaces of stormwater channel	m2	408		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
19	Edges and risers, etc not exceeding 300mm high	m	1 667		
	SEWER DRAINAGE (PROVISIONAL)				
	Class 400 uPVC pipes for underground installations				
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		
	Extra over 160mm uPVC pipes for fittings				
22	Bend	No	8		
23	Access bend	No	3		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

24	Access junction	No	10			
25	Rodding eye	No	3			
	uPVC channels					
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			
	Precast concrete circular inspection chambers (covers elsewhere)					
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			
	Covers etc					
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			
	Sundries					
35	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	14			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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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			
	SEPTIC TANK AND SOAKAWAY					
	<u>EARTHWORKS</u>					
	SITE CLEARANCE ETC					
	Site clearance					
39	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55			
	EXCAVATIONS					
	Excavate in earth not exceeding 2m deep					
40	Holes	m3	14			
	Excavation in earth exceeding 2m and not exceeding 4m deep					
41	Holes	m3	3			
	Extra over trench and hole excavations in earth for excavations in					
42	Soft rock	m3	1			
43	Hard rock	m3	1			
	Extra over all excavations for carting away					
44	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	16			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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	Risk of collapse of excavations				
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		
	Keeping excavations free of water				
46	Allow for keeping all excavations entirely free from water and mud		Item		
	<u>FILLING</u>				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density				
47	Backfilling to trenches, holes, etc	m3	1		
	G5 filling obtained from the demolitions and/or prescibed stockpiles on site compacted to 93% Mod AASHTO density				
48	Under floors, steps, paving etc.	m3	2		
	Coarse dry, clean, washed riversand filling supplied by the contractor and evenly spread, levelled, watered and rammed to receive waterproof membrane (elsewhere)				
49	Under floors etc	m3	1		
	Stone filling of 19mm broken stone				
50	Under floors etc	m3	6		
	Filter fabric				
51	Geofabric bidim on stone surface	m2	8		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				\dagger
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	Compaction of surfaces				
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		
	Soil insecticide				
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		
	CONCRETE				
	REINFORCED CONCRETE				
	25MPa/20mm concrete				
54	200mm reinforced concrete slab	m3	1		
55	170mm reinforced concrete slab	m3	1		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Permanent formwork to soffits				
56	Slabs propped up not exceeding 1,5m high	m2	7		
	REINFORCEMENT				
	<u>Fabric reinforcement</u>				
57	Mesh ref no. 395 fabric reinforcement in concrete				
	surface beds, slabs, etc	m2	14		
	BRICKWORK				
	<u>FOUNDATIONS</u>				
	Carried to Collection			R	
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	Prepared by Mgiba Consulting				

	Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
58	One brick walls	m2	23		
	SUNDRIES				
	Brick reinforcement				
59	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	3		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
60	On walls	m2	23		
	SUBSOIL DRAINAGE				
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		
	Gratings, covers, etc				
69	600 x 750mm Diameter type M2579 cast iron manhole cover and frame	No	2		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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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		
	WATER RETICULATION				
	Class 9 uPVC pressure pipes				
73	50mm Pipes laid in and including trenches	m	10		
74	75mm Pipes laid in and including trenches	m	300		
	Extra over class 9 uPVC pipes for fittings				
75	50mm Bend	No	1		
76	50mm Endcap	No	0.2		
77	75mm Bend	No	15		
78	75mm Endcap	No	6		
	"Taps, valves etc."				
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		
	Carried to Collection Prepared by Mgiba Consulting			R	

	<u>Valve boxes</u>				
83	600 x 600mm Cast iron stopcock box including brick chamber not exceeding 500mm deep internally	No	6		
	Sundries				
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		
89	Testing water pipe system		Item		
	WATER STORAGE TANK AND STAND				
	<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		
	25MPa/20mm reinforced concrete				
92	Bases	m3	2		
	Galavanised tank stand				
93	Pre-fabricated steel tank stand with 4,75m long legs, constructed complete as per details engineers specification	N.	4.00		
		No	1.00		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				
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	"Jojo" or equal approved fixed uPVC vertical tank				
94	Polyethylene tank (10kl) 1,82m diameter x 2,25m high on and including galvanised tank stand(stand measured elsewhere)	No	1		
	FENCING				
	Scope				
	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.				
	Interpretations				
	Fencing shall be deemed to include all items such as gates etc., and material and labour required to complete the work.				
	<u>Height</u>				
	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.				
	Fence wire razor mesh				
	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.				
	Razor mesh to be placed on outside of all fencing poles.				
	The top end of mesh to be finished to form barbs after the loose ends have been wrapped twice around the top straining wire.				
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

	<u>Gates</u>				
	Supply each gate with a suitable length of heavy duty chain and a 50mm heavy duty brass padlock with two keys				
	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				
	Gates shall be hot dipped galvanised after fabrication, to conform with the requirements of SABS specification 763 - Class A				
	Fencing				
	Galvanised diamond mesh security fencing				
95	1800mm High fencing, set up complete as described including site clearance, eyebolts and posts with footings	m	68		
96	Strainer post with two stays embedded into and including concrete blocks	No	27		
97	Corner post with two stays embedded into and including concrete blocks	No	4		
98	Gate post with one stay embedded into and including concrete blocks	No	2		
	Carried to Collection			R	
	Prepared by Mgiba Consulting				

99	Welded steel palisade security fencing with posts encased in concrete footings 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	870		
100	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		
101	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		
	Carried to Collection Prepared by Mgiba Consulting			R	

102	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			
	<u>Paintwork</u>					
	One coat galvogrip metal primer and two coats Plascon Velvaglo polyurethane aklyd semi gloss enamel paint					
103	On gates, grilles etc	m2	1 711			
	Carried to Collection			R		
	Prepared by Mgiba Consulting					
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Section No. 9				
Bill No. 1				
External Works				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	251			
	252			
	253			
	254			
	255			
	256			
	257			
	258			
	259			
	260			
	261			
	262			
	263			
	264			
	265			
Carried to Final Summary		R		
Prepared by Mgiba Consulting				_

Item No		Quantity	Rate	Amount	
-	PROVISIONAL SUMS				
	BILL NO. 1				
	PROVISIONAL SUMS				
	CASH DISCOUNT				
	No cash discount. All provisional sums are "NET".				
	ATTENDANCE				
	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:				
	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 whichthe Contractor shall be responsible;				
	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;				
	Carried to Collection		R		_
	Prepared by Mgiba Consulting				

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.				
FUEL, POWER AND WATER FOR COMMISSIONING PLANT				
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.				
REFURBISHMENT OF EXISTING BOREHOLE				
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.	ltem		250 000.	00
Allow for profit on last if required.	Item			
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			
Carried to Collection		R		
Prepared by Mgiba Consulting				

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Section No. 10				
Bill No. 1				
Provisional Sums				
COLLECTION				
Total Brought Forward from Page No.	Page No 267 268		Amount	
Carried to Final Summary		R		
Prepared by Mgiba Consulting				

	FINAL SUMMARY			
Section No		Page No		Amount
	TOTAL SECTION 1- PRELIMINARIES			
1	Prelimiaries	63		
	TOTAL SECTION 2- EXISTING BUILDINGS			
2	Building Works - Existing Buildings	64		
	TOTAL SECTION 3- BUILDING WORKS - GRMD3			
3	Building Works - GRMD3 (three seats + one disable facility + 3 urinals)	95		
	TOTAL SECTION 4- BUILDING WORKS - GRFD3			
4	Building Works - GRFD3 (three seats + one disable facility)	126		
	TOTAL SECTION 5- BUILDING WORKS - SMD3			
5	Building Works - SMD3 (three seats + one disable facility + 3 urinals)	157		
	TOTAL SECTION 6- BUILDING WORKS - SFD4			
6	Building Works - SFD4 (four seats + one disable facility)	188		
	TOTAL SECTION 7- BUILDING WORKS - MD5			
7	Building Works - MD5 (five seats + one disable facility + eleven urinals)	219		
	TOTAL SECTION 8 - BUILDING WORKS - FD9			
8	Building Works - FD9	250		
	TOTAL SECTION 9 - EXTERNAL WORKS			
9	External Works	266		
	Carried Forward Prepared by Mgiba Consulting		R	

	FINAL SUMMARY			
Section		Page		Amount
No	Bussialit Familia	No		
	Brought Forward		R	
	TOTAL SECTION 10- PROVISIONAL SUMS			
10	Provisional Sums	269		
	CONTINGENCIES			
	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	
	,			
	Carried to Form of Tender		R	
	Prepared by Mgiba Consulting			