

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>PRELIMINARIES</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>General</u></p> <p>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</p> <p>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</p> <p>iii) 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</p> <p>iv) 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</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time</p> <p>vii) Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></p>			

Definitions (A1)

1 Definitions and interpretation (clause 1)

1

Clause 1.1 Definition of "**Commencement Date**" is added:

"**Commencement date**" means the date of issue of the letter of Acceptance or any such other date as may in the Letter of Acceptance, which ever is the later, provided always that any such other date so specified shall not be more than seven (07) days after the date of the Letter of Appointment.

Clause 1.1 Definition of "**Construction Guarantee**" is amended by replacing it with the following:

"**Construction guarantee**" means a 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

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 tenderer s (prior to and 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 in terms of the legislation of the Republic of South Africa, and in particular:

(a) in respect of interest owed by the **employer**, the interest rate as determined by the

Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and

(b) in respect of interest owed to the **employer**, the interest rate as determined by the

Management Act, 1999 (Act No. 1 of 1999), will apply

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

Clause 1.6 Definition of "**Notice given**" is amended by replacing it with the following:

1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice

1.6.4 No clause

Fixed

Item

Value Related

Item

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 it with:

	<p>3.2.1 A construction guarantee in terms of 14.0, where so elected in his/her tender.</p> <p>Clause 3.7 is amended by the addition of the following: Add at the end thereof:</p> <p>The contractor shall supply and keep a copy of the JBCC applicable to this contract on site, to which the employer, principal agent and agents shall have access to at all times.</p> <p>Clause 3.10 is amended as follows:</p> <p>Replace the second reference to "principal agent" with the word "employer"</p>	<p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p>	
4	<p>Design responsibility (clause 4)</p> <p>Clause 4 is amended as follows:</p> <p>4.3 No clause</p>	<p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p>	
5	<p>Employer's agents (clause 5)</p> <p>Clause 5 "Employer's agents" is amended as follows:</p> <p>5.1.2 under clause 41- Include reference to 32.6.3; 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents.</p>	<p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p>	
6	<p>Contractor's site representative (clause 6)</p>	<p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p> <p style="text-align: right;">Item</p>	
7	<p>Compliance with laws and regulations (clause 7)</p>			

	<p>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</p>			
	<p style="text-align: right;">Fixed</p>	<p>Item</p>		
	<p style="text-align: right;">Value Related</p>	<p>Item</p>		
	<p style="text-align: right;">Time Related</p>			
8	<p>Works risk (clause 8)</p>			
	<p style="text-align: right;">Fixed</p>	<p>Item</p>		
	<p style="text-align: right;">Value Related</p>	<p>Item</p>		
	<p style="text-align: right;">Time Related</p>	<p>Item</p>		
9	<p>Indemnities (clause 9)</p>			
	<p>Clause 9.0 is amended by adding Clause 9.1.4:</p>			
	<p>The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgements (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 instalments 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.</p>			
	<p style="text-align: right;">Fixed</p>	<p>Item</p>		
	<p style="text-align: right;">Value Related</p>	<p>Item</p>		
	<p style="text-align: right;">Time Related</p>	<p>Item</p>		
10	<p>Works insurances (clause 10) Clause 10.0 is amended by the addition of the following clauses 10.5 Damage to the Works</p>			

(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 **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 Injury to Persons or loss of or damage to Properties

(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 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 obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **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 High 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 sink-holes or doline formation the following will apply:

10.7.1 Damage to the works

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's own costs

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** proof of such insurance policy, if requested to do so

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
	Value Related	Item
	Time Related	Item
11	Liability insurances (clause 11)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
12	Effecting insurances (clause 12)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
13	No clause (clause 13)	
14	Security (clause 14)	
	Clause 14.0 is amended by:-	
	14.1 In respect of contracts with a contract sum up to R1 million, the security to be submitted by the contractor to the employer will be as a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)	

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(A)

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such **security** shall be provided to the **employer** within twenty-one (21) calendar days from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty- one (21) calendar days from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where the **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one

(21) calendar days from **commencement date**

14.3.2 Within twenty-one (21) calendar days of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) calendar days of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0

provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **construction guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable **Construction guarantee** form included in the invitation to tender

14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) calendar days of it expiring.

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

14.5 Where **security** as a fixed **construction guarantee** of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last **certificate of practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) calendar days of it expiring

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8(A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

14.6.2 Within twenty-one (21) calendar days of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this agreement

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2 the **employer**, in his sole discretion, and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), where after 14.7 shall be applicable

Fixed	Item
Value Related	Item
Time Related	Item

Execution (A15 - A23)

Preparation for and execution of the works (clause 15)

	<p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) or latest edition, revision and amendments, within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1</p>	<p style="text-align: center;">Fixed</p> <p style="text-align: center;">Value Related</p> <p style="text-align: center;">Time Related</p>	<p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p>	
16	Access to the works (clause 16)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
17	Contract instructions (clause 17)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
18	Setting out of the works (clause 18)			
	<p><i>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments</i></p>			

	<p><i>The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.</i></p>		
		Fixed	Item
		Value Related	Item
		Time Related	Item
19	Assignment (clause 19)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
20	Nominated sub-contractors (clause 20)		
	Clause 20.0		
	Clause 20.1.3 is amended by replacing it with the following:		
	No Clause		
		Fixed	Item
		Value Related	Item
		Time Related	Item
21	Selected sub-contractors (clause 21)		
	Clause 21		
	Clause 21 is amended by replacing it with the following:		
	No Clause		
		Fixed	Item
		Value Related	Item
		Time Related	Item
22	Employer's direct contractors (clause 22)		
		Fixed	Item
		Value Related	Item

		Time Related	Item
23	Contractor's domestic sub-contractors (Clause 23)		
		Fixed	Item
		Value Related	Item
		Time Related	
	<u>COMPLETION</u>		
	<u>Completion (A24-A30)</u>		
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
		Time Related	Item
28	Sectional completion (clause 28)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
29	Revision of date of practical completion (clause 29)		
	Clause 29.2.5 is amended by replacing it with the following:		
	No Clause		

	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
30	Penalty for non-completion (clause 30)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Payment (A31 - A35)</u>			
31	interim payment to the contractor (clause 31)			
	<p>Clause 31.5.2 is amended by deleting and replacing with: Security adjustment in terms of 14.0 and 31.8 Clause 31.8 is amended as follows: 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and of the materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate.</p> <p>31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p>			

	<p>36.3 Remove reference to "No clause", and replace "principal agent" with "employer"</p> <p>36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of 37.5 this agreement either by the employer or the and contractor; or for any reason and 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"</p>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
37	Cancellation by employer - loss and damage (clause 37)	
	Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"	
	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)"	
	Fixed	Item
	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	<p>Disputes Settlement (clause 40)</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 under clause 41 remove reference to no clause</p> <p>Clause 40.7.1 should be amended</p> <p>By changing "(10)" to "(15)" and adding the following to the end thereof:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.</p>		
	Fixed		Item
	Value Related		Item
	Time Related		Item

State Provision (A41)

41	<p>State Substitutions (clause 41)</p> <p>Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following:</p> <p>40.1 Should any dispute between the 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.</p> <p>40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The adjudicator shall be appointed in terms of the Adjudicators Agreement set out in C1.4 .</p>		
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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 thereof. 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 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 Tender's 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

Fixed Item

Value Related Item

	Time Related	Item
	<u>Documents (B2)</u>	
44	Checking of documents (B2.1)	
	<i>These bills of quantities:</i>	
	<i>(1) contain pages and annexes as indexed, and;</i>	
	<i>(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances</i>	
	<i>Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</i>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
	Provisional bills of quantities (B2.2)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
46	Availability of construction documentation (B2.3)	
	<i>The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period</i>	
	Fixed	Item
	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)		
	<p><i>Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders</i></p> <p><i>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"</i></p>		
		Fixed	Item
		Value Related	Item
		Time Related	Item
	<p><u>The site (B3)</u></p>		
50	Defined works area (B3.1)	Fixed	Item
		Value Related	Item
		Time Related	Item
51	Geo-technical investigation (B3.2)	Fixed	Item
		Value Related	Item
		Time Related	Item
52	Inspection of the site (B3.3)		
	<p><i>Tenderer s are instructed to familiarise themselves before submission of their tender with regard to the relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.</i></p> <p><i>No claims for extras arising from the contractor having failed to comply with this clause will be entertained</i></p>		

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		Fixed	Item
		Value Related	Item
		Time Related	Item
53	Existing premises occupied (B3.4)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
54	Previous work - dimensional accuracy (B3.5)		
	<i>Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site</i>		
		Fixed	Item
		Value Related	Item
		Time Related	Item
55	Previous work - defects (B3.6)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
56	Services - known (B3.7)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
57	Services - unknown (B3.8)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
58	Protection of trees, etc (B3.9)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
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		
	<u>Management of contract (B4)</u>			
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 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 cash flow analysis.			
	5. 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 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 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 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 a foregoing principle it is provide that:

1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and

2. Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date.

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 a foregoing 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, 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 a foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.

	Fixed	Item
	Value Related	Item
	Time Related	Item
63	Progress meetings (B4.3)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
64	Technical meetings (B4.4)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
65	Labour and plant records (B4.5)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
	<u>Samples, shop drawings and manufacturer's instructions (B5)</u>	
66	Samples of materials (B5.1)	

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	
	<u>Temporary services (B7)</u>			
76	Location (B7.1)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	Water (B7.2)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
77	Electricity (B7.3)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
78	Telecommunication facilities (B7.4)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
79	Ablution facilities (B7.5)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	

<u>Prime cost amounts (B8)</u>		
80	Responsibility for prime cost amounts (B8.1)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
<u>Attendance on nominated and selected subcontractors (B9)</u>		
	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
81	Special attendance (B9.2)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
82	Commissioning - Fuel, water and electricity (B9.3)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
<u>Financial aspects (B10)</u>		
83	Statutory taxes, duties and levies (B10.1)	
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
84	Payment of preliminaries (B10.2)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
85	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
86	Payment certificate cash flow (B10.4)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
	<u>General (B11)</u>		
87	Protection of works (B11.1)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
88	Protection/isolation of existing/sectionally occupied works(B11.2)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
89	Site security (B11.3)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
90	Notice before covering work (B11.4)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
91	Disturbance (B11.5)		
		Fixed	Item
		Value Related	Item
		Time Related	Item

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92	Environmental disturbance (B11.6)	Fixed	Item
		Value Related	Item
		Time Related	Item
93	Works cleaning and clearing (B11.7)	Fixed	Item
		Value Related	Item
		Time Related	Item
94	Vermin (B11.8)	Fixed	Item
		Value Related	Item
		Time Related	Item
95	Overhand work (B11.9)	Fixed	Item
		Value Related	Item
		Time Related	Item
96	Instruction manuals and guarantees (B11.10)	Fixed	Item
		Value Related	Item
		Time Related	Item
97	As built information (B11.11)	Fixed	Item
		Value Related	Item
		Time Related	Item
98	Tenant installations (B11.12)	Fixed	Item
		Value Related	Item
		Time Related	Item
<u>Schedule of variables (B12)</u>			
99	Pre-tender information (B12.1)		

This **schedule** contains all variables referred to in this document and is divided into pre-tender 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

12.1.4 Defined works area (B12.1.4)

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site

12.1.5 Geo-technical investigation (B12.1.5)

The geo-technical report is available for viewing at the offices of the Principal Agent
Yes

12.1.6 Existing premises occupied (B12.1.6)

[3.4] Specific requirements:
The contractor shall execute the works with as little noise and disturbance as possible

12.1.6 Existing premises occupied

[3.4] Specific requirements:
The contractor shall execute the works with as little noise and disturbance as possible

12.1.7 Previous work - Dimensional accuracy (B12.1.7)

[3.5] Details:
No additional details

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 connection are shown on the site plan and/or will be pointed out on site by the principal agent, however it still remains the responsibility of the main contractor to make sure that he/she does not damage existing services during construction.

12.1.10 Protection of trees

[3.7] 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 an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk,
chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

12.1.14 Main notice board

[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.

12.1.15 Subcontractors' notice board

[6.6] A notice board is required NO
 Specific requirements:

12.1.16 Water

[7.2] Option A (by contractor) YES

12.1.17 Electricity

[7.3] Option A (by contractor) YES

12.1.18 Telecommunications

[7.4] Telephone YES

Facsimile YES

E-mail YES

12.1.19 Ablution facilities

[7.5] Option A (by contractor) YES

Option B (by employer) NO

12.1.20 Protection of existing/sectionally occupied works

[11.2] Protection is required YES

12.1.21 Special attendance

The contractor must obtain information from all subcontractors at tender stage regarding special attendance that might be required and make allowance for each and every subcontract that requires special attendance

[9.2] Subcontractor (1) Details:

Subcontractor (2) Details:

Subcontractor (3) Details:

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 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**

12.1.24 Environmental disturbance

[11.6] Specific requirements: None

Post-tender information (B12.2)

All post-tender information for this section will be determined once tender is awarded

	Fixed	Item
	Value Related	Item
	Time Related	Item

12.2.1 Payment of preliminaries

[10.2] Option A (prorated) YES

Option B (calculated) NO

12.2.2 Adjustment of preliminaries

[10.3] Option A (three categories)
YES

Option B (detailed breakdown)
NO

12.2.3 Additional agreed preliminaries items

Details:
None

All site instructions issued on site shall be recorded in writing within seven (7) calendar days in 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 architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book

Fixed

Item

Value Related

Item

Time Related

Item

105 **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

106 **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

107 **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	
	Value Related	Item	
	Time Related	Item	
108	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	
109	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	
110	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	
111	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 non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

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 of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

Fixed

Item

Valued Related

Item

Time Related

Item

112 **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

113 **Clause C10 - Commencement of Works in School Areas**

	<p>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</p>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
114	<p>Clause C11 - Entrance Permits to School Areas</p>	
	<p>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</p>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
115	<p>Clause C12 - Security Check of Personnel</p>	
	<p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p>	
	<p>In the event of the principal agent requesting the removal of a person or persons from</p>	
	<p>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</p>	
	Fixed	Item
	Value Related	Item
	Time Related	Item
116	<p>Clause C13 - HIV/Aids Awareness</p>	

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities**. 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		
117	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		
118	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	
119	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	
120	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	
	Value Related	Item	
	Time Related	Item	
121	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	
	Value Related	Item	
	Time Related	Item	
	Carried to Summary		

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>REMOVAL OF EXISTING WORK:</u></p> <p>NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.</p> <p>DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.</p> <p>PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.</p> <p>PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.</p> <p>OLD USABLE MATERIALS from the</p>			

alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work.

Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.

MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.

DEMOLITIONS

NOTE

Contractor rates for demolitions shall include for carting away and disposal of debris to a tip to be found by the contractor unless specifically instructed otherwise

Demolition of existing Pit toilets and buildings

Completely demolish existing one brick wall of old pit toilet with five water closets, including but not limited to breaking down internal half brick wall and taking out the roof sheeting, windows and doors, approximately 40 square meters and including cart away and backfill pits and sucking of waste and disinfecting the pit for later breaking down and compacting up to satisfaction of the Principal Agent

No 1

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2	<p>Completely demolish existing one brick wall of old pit toilet with five water closets, including but not limited to breaking down internal half brick wall and taking out the roof sheeting, windows and doors, approximately 20 square metres and including cart away and backfill pits and sucking of waste and disinfecting the pit for later breaking down and compacting up to satisfaction of the Principal Agent</p>	No	1	
	Carried to summary			

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>FOUNDATIONS (Provisional)</u></p> <p><u>EARTHWORKS</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>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</p> <p><u>Nature of ground</u></p> <p>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</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p>			

	<u>Soil poisoning</u>			
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc C : 0 D : 360	m2	360	
	<u>Earthworks</u>			
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density C : 0 D : 280	m2	280	
	Removal of Trees Etc			
	Taking out and removing, grubbing up roots and filling in holes			
3	Take out and remove tree stump exceeding 200mm and not exceeding 500mm girth	No	3	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches for screen wall C : 0 D : 12	m3	12	
5	Holes, etc. C : 0 D : 66	m3	66	
6	Excavations to reduce levels C : 0 D : 22	m3	22	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
7	Soft rock C : 0 D : 10	m3	10	
8	Hard rock C : 0 D : 5	m3	5	
	<u>Extra over all excavations for carting away</u>			
9	Surplus material from excavations on site to a dumping site to be located by the contractor C : 0 D : 56	m3	56	

	<u>Risk of collapse of excavations</u>			
10	Sides of trench and hole excavations not exceeding 1,5m deep C : 0 D : 115	m2	115	
	<u>Keeping excavations free of water</u>			
11	Keeping excavations free of all water other than subterranean water	Item	1	
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
12	Under floors, steps, paving, etc C : 0 D : 36	m3	36	
13	Backfilling to trenches, holes, etc C : 0 D : 41	m3	41	
	<u>Compaction of surfaces</u>			
14	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 (Pit floor) C : 0 D : 46	m2	46	
15	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 (Ramps) C : 0 D : 8	m2	8	
	<u>Prescribed density tests on filling</u>			
16	"Modified AASHTO Density" C : 0 D : 12	No	12	
	<u>SOIL POISONING</u>			
	<u>Weed killer mixed in accordance to supplier's specifications</u>			
17	To bottoms and sides of trenches, etc. C : 0 D : 210	m2	210	
18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming C : 0 D : 52	m2	52	
	<u>Soil insecticide</u>			
19	To bottoms and sides of trenches etc C : 0 D : 210	m2	210	

20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming C : 0 D : 52 <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15MPa/19mm concrete</u>	m2	52		
21	Surface blinding under C : 0 D : 6 <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>30MPa/19mm concrete</u>	m3	6		
22	concrete base slab in bottom of the pit C : 0 D : 7	m3	7		
23	Side concrete on the pit C : 0 D : 8	m3	8		
24	Concrete beam C : 0 D : 6.9	m3	6,9		
25	Concrete collar to support the precast slab C : 0 D : 5	m3	5		
	<u>TEST CUBES</u> Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	15		
26	C : 0 D : 15				
	Carried to summary				

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p><u>"Foamcement " lightweight concrete</u></p> <p>"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p><u>"Celbeton" lightweight concrete</u></p> <p>"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm</p> <p><u>Formwork</u></p>			

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re- use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa/19mm concrete

1	Ramps C : 0 D : 2	m3			2
2	Strip footings C : 0 D : 18	m3			18

Soilcrete

3	Soilcrete in surface bed and sides of pits	m3			17
4	Precast Concrete footstool C : 0 D : 3	No			3

TEST CUBES

Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith

5	C : 0 D : 15	Sets			15
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Finishing top surfaces of concrete smooth with a steel trowel

6	Surface beds, pits etc. C : 0 D : 18	m2			18
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7	<p><u>Formwork</u></p> <p>Rough formwork to sides:</p> <p>Edges, risers, ends and reveals not exceeding 300mm high or wide</p> <p>C : 0 D : 29</p>	m	29	
	<p>Carried to summary</p>			

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Linings to concrete</u></p> <p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p>Samples</p> <p>Samples of all masonry building units. except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing". shall consist of a minimum of 6</p> <p><u>Foundations</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></p>			
1	One brick walls C : 0 D : 26	m2	26

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2	Brick Piers C : 0 D : 4 <u>BRICKWORK SUNDRIES</u> Brick reinforcement	m3	4
3	150mm Wide reinforcement built in horizontally C : 0 D : 239 <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 <u>SUPERSTRUCTURE</u> <u>FACE BRICKWORK</u> <u>"Corobrick" "Letaba Satin Face bricks" pointed with recessed horizontal and vertical joints</u>	m	239
4	Extra over brickwork for face brickwork to screen wall C : 0 D : 79	m2	79
5	Brick Piers to screen wall C : 0 D : 11 <u>BRICKWORK SUNDRIES</u> Brick reinforcement	m3	11
6	150mm Wide reinforcement built in horizontally C : 0 D : 488	m	488
Carried to summary			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brik grip DPC" embossed damp proof course</u>			
1	In walls C : 0 D : 18	m2	18	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds, Pits C : 0 D : 18	m2	18	
	<u>Tarpaulin waterproof</u>			
3	550-700g Tarpaulinamalooloo dry bag inside the container C : 0 D : 66	m2	66	
4	Inside panel vertically C : 0 D : 9	m2	9	
5	Over edges C : 0 D : 11	m2	11	
6	Two coats of bitumen waterproofing C : 0 D : 49	m2	49	

FLOOR AND WALL SEALERS

Minimum two coats of approved epoxy

5	Floor and bottom wall panels C : 0 D : 105	m2	105
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Carried to summary

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 6</u>			
<u>PLUMBING AND DRAINAGE AND STRUCTURAL</u>			
<u>ABT SCHOOL SANITATION</u>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades			
NOTES:			
Reinforced concrete panels with a minimum strength of 40MPA and finished smoothly with design pattern			
Back sloping roof panel to include water drip			
80mm Base panel is provided with a non slip entrance groove and included components to firmly fasten to slab			
Includes access cover slab			
Black UV treated treated PVC vent pipe 110mm diameter secured with corrosive bracket extended 850mm above the roof with cowl and gauze. Uncollapsible substructure and components suitable for dry technology and waterborne systems.			
<u>ABT SCHOOL SANITATION TECHNOLOGY</u>			
Amalooloo School Sanitation Technology including flashing, rainwater harvesting, paving around facility, child footstep and all other functional components delivered and installed complete.			
1	No	1	
Disabled seat including Flashing, rainwater harvesting tank(500L) Paving around facility, outside concrete handwash basin and fittings accessories complete			
C : 0 D : 1			
2	No	2	
Urinal including Flashing, rainwater harvesting tank(500L) Paving around facility, outside concrete handwash basin and fittings accessories complete			
C : 0 D : 2			

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3	Junior seat (boys and/or girls) including Flashing, rainwater harvesting tank(500L) Paving around facility, outside concrete handwash basin and fittings accessories complete C : 0 D : 3	No	3	
4	SHE bins including protective cage complete C : 0 D : 1	No	1	
5	Lockable toilet tissue holders C : 0 D : 6	No	6	
<u>Budgetary Allowances</u>				
The following budgetary allowance are for work to be executed by the contractor and will be measured and valued at rates in these bill of quantities				
<u>Soakaway</u>				
6	Provide the sum of R75 000.00 (Seventy Five Thousand Rands and Zero Cents) for construction of Soakaway Tank complete with all plumbing fittings, etc to be used as directed by the Principal Agent or deducted in whole or in part.	Item	1	
Carried to summary				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>CONCRETE APRONS.</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>APRONS AROUND BUILDINGS</u>			
	<u>Compaction of surfaces</u>			
1	Rip ,re-compact ,etc in-situ material in 150mm thick roadbed layer to 93% Mod AASHTO density.. C : 0 D : 69	m2	69	
	<u>Weed killer mixed in accordance to supplier's Specifications</u>			
2	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming C : 0 D : 69	m2	69	
	<u>Soil insecticide</u>			
3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming C : 0 D : 69	m2	69	
	<u>15 MPa/20 mm concrete</u>			
4	Aprons cast in panels to falls C : 0 D : 16	m3	16	

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5	<p>Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.</p> <p style="text-align: center;">C : 0 D : 64</p> <p><u>Finishing top surfaces of concrete smooth with a wood float</u></p>	m	64		
6	<p>Aprons to falls</p> <p style="text-align: center;">C : 0 D : 69</p> <p><u>Smooth formwork to sides</u></p>	m2	69		
7	<p>Edges, risers, ends and reveals not exceeding 300mm high or wide</p> <p style="text-align: center;">C : 0 D : 37</p> <p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p><u>Fabric reinforcement</u></p>	m	37		
8	<p>Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.</p> <p style="text-align: center;">C : 0 D : 69</p> <p><u>Sundries</u></p>	m2	69		
9	<p>25mm impregnated expansion joint filler board between brickwork and concrete</p> <p style="text-align: center;">C : 0 D : 28</p>	m	28		
	Carried to summary				

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 2</u>			
<u>PAVINGS ETC,</u>			
<p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<p><u>Materials and workmanship must be in accordance to the following SABS 1200</u></p>			
<p>C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channelling MM - Ancillary Roadworks</p>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc C : 0 D : 320	m2	320
<u>Open face excavation in earth over sloping site</u>			
2	Stripping average 150mm thick layer of top soil and stockpiling on site C : 0 D : 45	m3	45
3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) C : 0 D : 38	m3	38

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4	Excavate in pickable earth to reduce ground level below paving and set aside for later use C : 0 D : 38	m3	38		
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum) C : 0 D : 260	m2	260		
<u>Paving layers</u>					
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.					
Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit					
6	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density C : 0 D : 37	m3	37		
7	150mm Imported G5 material compacted to 93% n AASHTO density C : 0 D : 56	m3	56		
<u>Prescribed density tests on filling</u>					
8	Mod. AASHTO Density" test C : 0 D : 8	No	8		
<u>PAVING</u>					
<u>Interlocking paving</u>					
<u>"Concor Double Zig Zag" pre-cast concrete interlocking paving (35MPa Minimum compressive strength):</u>					
9	60mm Thick natural grey paving laid in herring bone pattern C : 0 D : 310	m2	310		
10	Weed-killing treatment of surface under paving C : 0 D : 310	m2	310		

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CONSTRUCTION OF SANITATION FACILITIES
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11	Fig 7 kerb including 15mm spacing at 3m intervals for rain water draining system (PC Amount R150-00/m VAT excl.) C : 0 D : 310	m	310	
12	Straight cutting units to fit edge restraints C : 0 D : 310	m	310	
	<u>Sundries</u>			
13	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc C : 0 D : 245	m	245	
	Carried to summary			

Item	<u>SECTION NO.3</u>	Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>FENCING</u>			
	<u>EXCAVATIONS, ETC</u>			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site Clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges shrubs and trees n.e 200mm girth, bush, etc C : 0 D : 75	m2	75	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes C : 0 D : 17	m3	17	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock C : 0 D : 2	m3	2	
4	Hard rock C : 0 D : 1	m3	1	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations on site to a dumping site to be located by the contractor C : 0 D : 55	m3	55	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep C : 0 D : 65	m	65	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item	1	

<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15MPa/19mm concrete</u>				
8	Base C : 0 D : 13	m3	13	
<u>FENCING</u>				
<u>50 x 50mm Galvanized welded mesh fencing erected strict accordance to the manufacturer's instructions</u>				
9	1,8m Galvanized 50 x 50mm welded mesh fixed to posts etc. C : 0 D : 75	m	75	
10	Corner post size 1,8m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m) C : 0 D : 4	No	4	
11	Gate post size 1,8m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m) C : 0 D : 2	No	2	
12	Immediate post size 1,8m high x 101mm diameter x 2mm thick with cap and base plate and finished with silver bitumen primer fixed in concrete base (e/m) C : 0 D : 38	No	38	
13	Pedestrian gate size 1000 x 1800mm high to suit diamond mesh fencing covered with galvanized wire welded mesh fixed to framing and cross brace including sliding lock	No	1	
Carried to summary				

CLUSTER 03
TENDER NO: TMT-22/23-SAFE-LPCL 03
CONSTRUCTION OF SANITATION FACILITIES
AT MAATSEREPE PRIMARY SCHOOL

Item	<u>SECTION NO.3</u>	Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	PROVISIONAL SUMS			
	TRAINING AND SUPERVISION			
1	Provide the amount of R50, 000,00 For training and site supervision for the construction and future Maintenance via Precast system (ABT) App and software program	Item 1		
	HEALTH AND HYGIENE CLEANING FOR 3 MONTHS			
2	Provide the amount of R15000 for cleaning lady and or man for the facility for three months	Item 1		
	Carried to summary			

FINAL SUMMARY

Page No

- 1 PRELIMINARIES & GENERAL
- 2 BUILDING
- 3 EXTERNAL WORKS

Sub Total 1 - BUILDING COSTS

CONTINGENCY SUM

Allow the sum of R50 000.00 (Fifty Thousand Rands and Zero Cents)for contingencies, to be used as directed by the Principal Agent and deducted in whole or in part if not required

Item 50 000,00

Sub total BUILDINGS (VAT excl.)

Value Added Tax

Sub Total (VAT INCL.) CARRIED TO CLUSTER FINAL SUMMARY

Carried to Form of Tender		R	
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