

Item No	Quantity	Rate	Amount
<u>SECTION No. 1 - PRELIMINARIES</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>MEANING OF TERMS "TENDER / TENDERER"</u>			
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"			
<u>PRELIMINARIES</u>			
The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"			
<u>PRICING OF PRELIMINARIES</u>			
Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities			
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SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

"**COMMENCEMENT DATE**" means the date that is 5 working days after site hand over.

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 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

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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 Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of 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 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), will apply

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

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

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2	<p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>OBJECTIVE AND PREPARATION</u></p> <p>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</p> <p>Clause 2.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>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</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 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>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
6	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
9	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p>		
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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 **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 materials 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 negligence of any person for whose actions the **employer** is legally liable

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- (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 negligence 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**

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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 sinkhole 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

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	<p>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</p> <p>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</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>			
11	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
12	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
13	<p>A13.0 No clause</p>	N/A		
14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p>			
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14.1 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) 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 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:

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

14.2.2 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**

14.9 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), whereafter 14.7 shall be applicable

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	<p><u>EXECUTION</u></p> <p>15 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <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), within fourteen (14) 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 15.1.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>16 A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>17 A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section 1 Bill No. 1 Preliminaries and General</p>			
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18	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed:_____ Value related:_____ Time related:_____	Item		
19	A19.0 ASSIGNMENT Clause 19.0 Fixed:_____ Value related:_____ Time related:_____	Item		
20	A20.0 NOMINATED SUBCONTRACTORS Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums Fixed:_____ Value related:_____ Time related:_____	Item		
21	A21.0 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item		
22	A22.0 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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23	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed: _____ Value related: _____ Time related: _____ <u>COMPLETION</u>	Item		
24	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____	Item		
25	A25.0 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____	Item		
26	A26.0 FINAL COMPLETION Clause 26.0 Fixed: _____ Value related: _____ Time related: _____	Item		
27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____	Item		
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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29	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
30	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<p><u>PAYMENT</u></p>			
31	<p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 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>31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven and half percent (97.5%) 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>			
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31.8(A).3 Ninety-nine percent (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

31.8(A).4 One hundred percent (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**

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

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32 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

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**"

Add the following clauses: 33.2.9 to 33.2.13:

33.2.9 the **contractor's** failure or neglect to commence with the works on the dates prescribed in the contract

33.2.10 the **contractor's** failure or neglect to proceed with the works in terms of the contract

33.2.11 the **contractor's** failure or neglect for any reason to complete the works in accordance with the contract

33.2.12 the **contractor's** refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract

33.2.13 the **contractor's** estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.

Fixed: _____ Value related: _____ Time related: _____

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33 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>CANCELLATION</u></p>	Item	
36	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p>		
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	<p>36.3 Remove reference to “No clause”, and replace “principal agent” with “employer”</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
37	<p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.3.5 Replace “ninety (90)” with “one hundred and twenty (120) and 38.5.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
38	<p>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p>	Item		
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	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			
	Fixed: _____ Value related: _____ Time related: _____	Item		
39	A39.0 CANCELLATION - CESSATION OF THE WORKS Clause 39.0 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 a report" Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>DISPUTE</u>			
40	A40.0 DISPUTE SETTLEMENT Clause 40.0 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 costs concerning the mediation and equally share the costs of the mediator and related costs Fixed: _____ Value related: _____ Time related: _____	Item		
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SUBSTITUTE PROVISIONS

41 A41.0 STATE CLAUSES

Clause 41.0

Fixed: _____ Value related: _____ Time
related: _____

Item

CONTRACT VARIABLES

42 A42.0 THE SCHEDULE (C1.2)

Clause 42.0

Tenderers are referred to the C1.2 CONDITIONS OF
CONTRACT AND CONTRACT VARIABLES for
variables pertaining to this contract

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

43 ***B1.1 Definitions and interpretation***

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

44 ***B2.1 Checking of documents***

Fixed: _____ Value related: _____ Time related: _____

Item

45 ***B2.2 Provisional bills of quantities***

Fixed: _____ Value related: _____ Time related: _____

Item

46 ***B2.3 Availability of construction documentation***

Fixed: _____ Value related: _____ Time related: _____

Item

47 ***B2.4 Interests of agents***

Fixed: _____ Value related: _____ Time related: _____

Item

48 ***B2.5 Priced documents***

Fixed: _____ Value related: _____ Time related: _____

Item

49 ***B2.6 Tender submission***

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"

Fixed: _____ Value related: _____ Time related: _____

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B3.0 THE SITE

50 **B3.1 Defined works area**

Fixed: _____ Value related: _____ Time
related: _____

Item

51 **B3.2 Geotechnical investigation**

Fixed: _____ Value related: _____ Time
related: _____

Item

52 **B3.3 Inspection of the site**

Fixed: _____ Value related: _____ Time
related: _____

Item

53 **B3.4 Existing premises occupied**

Fixed: _____ Value related: _____ Time
related: _____

Item

54 **B3.5 Previous work - dimensional accuracy**

Fixed: _____ Value related: _____ Time
related: _____

Item

55 **B3.6 Previous work - defects**

Fixed: _____ Value related: _____ Time
related: _____

Item

56 **B3.7 Services - known**

Fixed: _____ Value related: _____ Time
related: _____

Item

57 **B3.8 Services - unknown**

Fixed: _____ Value related: _____ Time
related: _____

Item

58 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

Item

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59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item		
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B4.0 MANAGEMENT OF CONTRACT</u>			
61	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: _____	Item		
62	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item		
63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item		
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
66	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item		
67	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item		
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68	B5.3 Shop drawings	Fixed: _____ Value related: _____ Time related: _____	Item		
69	B5.4 Compliance with manufacturers' instructions	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>				
70	B6.1 Deposits and fees	Fixed: _____ Value related: _____ Time related: _____	Item		
71	B6.2 Enclosure of the works	Fixed: _____ Value related: _____ Time related: _____	Item		
72	B6.3 Advertising	Fixed: _____ Value related: _____ Time related: _____	Item		
73	B6.4 Plant, equipment, sheds and offices	Fixed: _____ Value related: _____ Time related: _____	Item		
74	B6.5 Main notice board	Fixed: _____ Value related: _____ Time related: _____	Item		
75	B6.6 Subcontractors' notice board	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B7.0 TEMPORARY SERVICES</u>				
76	B7.1 Location	Fixed: _____ Value related: _____ Time related: _____	Item		
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77	B7.2 Water Fixed:_____ Value related:_____ Time related:_____	Item		
78	B7.3 Electricity Fixed:_____ Value related:_____ Time related:_____	Item		
79	B7.4 Telecommunication facilities Fixed:_____ Value related:_____ Time related:_____	Item		
80	B7.5 Ablution facilities Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B8.0 PRIME COST AMOUNTS</u>			
81	B8.1 Responsibility for prime cost amounts Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>			
82	B9.1 General attendance Fixed:_____ Value related:_____ Time related:_____	Item		
83	B9.2 Special attendance Fixed:_____ Value related:_____ Time related:_____	Item		
84	B9.3 Commissioning - fuel, water and electricity Fixed:_____ Value related:_____ Time related:_____	Item		
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B10.0 FINANCIAL ASPECTS

85 ***B10.1 Statutory taxes, duties and levies***

Fixed: _____ Value related: _____ Time
related: _____

Item

86 ***B10.2 Payment for preliminaries***

Fixed: _____ Value related: _____ Time
related: _____

Item

87 ***B10.3 Adjustment of preliminaries***

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 / lump sum document**"

Fixed: _____ Value related: _____ Time
related: _____

Item

88 ***B10.4 Payment certificate cash flow***

Fixed: _____ Value related: _____ Time
related: _____

Item

B11.0 GENERAL

89 ***B11.1 Protection of the works***

Fixed: _____ Value related: _____ Time
related: _____

Item

90 ***B11.2 Protection / isolation of existing / sectionally
occupied works***

Fixed: _____ Value related: _____ Time
related: _____

Item

91 ***B11.3 Security of the works***

Fixed: _____ Value related: _____ Time
related: _____

Item

92 ***B11.4 Notice before covering work***

Fixed: _____ Value related: _____ Time
related: _____

Item

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93	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
94	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
95	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item		
96	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item		
97	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item		
98	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item		
99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item		
100	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B12.0 SCHEDULE OF VARIABLES</u>			
101	B12.1 Schedule of variables Fixed: _____ Value related: _____ Time related: _____	Item		
<p style="text-align: right;">Carried to Collection</p> <p>Section 1 Bill No. 1 Preliminaries and General</p>			R	

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**

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the **schedule**. Key cross reference clauses are italicised in [] brackets

12.1 PRE-TENDER INFORMATION

12.1.1 Provisional bills of quantities

[2.2] The quantities are provisional

YES

12.1.2 Availability of construction documentation

[2.3] *Construction documentation is complete*

YES

12.1.3 Interests of agents

[2.4] Details:

12.1.4 Defined works area

[3.1] Details:

12.1.5 Geotechnical investigation

[3.2] Details:

12.1.6 Existing premises occupied

[3.4] Specific requirements:

12.1.7 Previous work - dimensional accuracy

[3.5] Details:

12.1.8 Previous work - defects

[3.6] Details:

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12.1.9 **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

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 as type Drawing GEN 063, 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

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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)	NO				
Option B (by employer - free of charge)					
Option C (by employer - metered)	NO				
12.1.17 Electricity [7.3] Option A (by contractor)	YES				
Option B (by employer - free of charge)	NO				
Option C (by employer - metered)	NO				
12.1.18 Telecommunications [7.4] Telephone	YES				
YES					
Facsimile	YES				
E-mail					
	YES				
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12.1.19 Ablution facilities [7.5] Option A (by contractor)	YES			
Option B (by employer)				
12.1.20 Protection of existing/sectionally occupied works	NO			
[11.2] Protection is required				
12.1.21 Special attendance	NO			
[9.2] Subcontractor (1) details:				
Subcontractor (2) details:				
Subcontractor (3) details:				
Subcontractor (4) details:				
12.1.22 Protection of the works				
[11.1] Specific requirements:				
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:				
12.2 POST-TENDER INFORMATION				
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12.2.1 Payment of preliminaries [10.2] Option A (prorated)	NO			
Option B (calculated)	YES			
12.2.2 Adjustment of preliminaries [10.3] Option A (three categories)	NO			
Option B (detailed breakdown)	YES			
12.2.3 Additional agreed preliminaries items Details:				
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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

102 **C1.0 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 tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: _____
Time related: _____

Item

103 **C2.0 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used - PW371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014)." is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____
Time related: _____

Item

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104	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, 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</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105	<p>C4.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items 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</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>C4.1 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: _____ Value related: _____ Time related: _____</p>	Item		
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C4.2 AWARENESS WORKSHOPS

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: _____ Value related: _____
Time related: _____

Item

C4.3 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: _____ Value related: _____
Time related: _____

Item

C4.4 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: _____ Value related: _____
Time related: _____

Item

C4.5 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: _____ Value related: _____
Time related: _____

Item

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**ECDoE DISASTER SCHOOLS:
FLAGSTAFF SENIOR SECONDARY SCHOOL**

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**ECDoE DISASTER SCHOOLS:
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Item No	Quantity	Rate	Amount
<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY REQUIREMENTS</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan.	Item	
2	Submission of the Health and Safety File.	Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item	
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4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item		
5	Provision of full time Health and Safety Officer for the entire construction period.		Item		
6	Induction training of personnel.	No			
7	Provision of first aid boxes.	No			
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>					
8	Reflective vests.	No			
9	Hard hats.	No			
10	Protective foot wear.	No			
11	Ear Plugs.	No			
12	Dust Masks.	No			
<u>Costs of Medical Certificates and Medical Surveillance:</u>					
13	Initial (baseline) medical examinations.	No			
14	Exit Examinations.	No			
<u>Noise Monitoring:</u>					
15	Establishment of noise zones.	No			
16	Audiograms.	No			
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**ECDoE DISASTER SCHOOLS:
FLAGSTAFF SENIOR SECONDARY SCHOOL**

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 1</u>			
<u>ALTERATIONS</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Existing Furniture, Equipment, etc</u>			
The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done			
<u>Damage to existing finishes</u>			
The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.			
Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account			
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Responsibility for site

The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above

Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

General

The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

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"Taking out and removing doors, windows, etc"

implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing

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"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained

"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form openings to thoroughly bond to the new work and new finishes to both sides as described.

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

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The following shall apply in respect of asbestos removal

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

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TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal and allow for re-use

- | | | | |
|---|---|----|-----|
| 1 | SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing | m | 100 |
| 2 | Double gate size 3 x 1.8m high | No | 1 |

DEMOLISH

Demolish & remove existing

- | | | | |
|---|--|----|---|
| 3 | Break down and demolish existing building size approximately 19 400mm long x 7 000mm wide x 3 100mm high comprised of corrugated iron pitched roof covering, timber rafters, with block bricks and mortar walls including timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site. (3 Classroom block) Block B | No | 1 |
| 4 | Break down and demolish existing building size approximately 32 500mm long x 8 000mm wide x 3 100mm high comprised of corrugated iron pitched roof covering, timber rafters, with block bricks and mortar walls including timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site. (4 Classroom block) Block C | No | 1 |
| 5 | Demolish concrete rainwater tankstand 2m in diameter remove cart away including digging up old foundations. | No | 4 |

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Item No		Quantity	Rate	Amount
<u>SECTION NO.3 - EXTERNAL WORKS</u>				
<u>BILL No. 1</u>				
<u>BULK EARTHWORKS</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>Construction Notes:</u>				
Platforms to be prepared by the main contractor				
<u>DEMOLITIONS AND SITE CLEARANCE</u>				
<u>Site clearance</u>				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	975	
2	Strip topsoil, average 150mm thick, including depositing in stockpiles on site for later re-use.	m3	150	
<u>EXCAVATIONS, FILLING, ETC.</u>				
<u>OPEN FACE EXCAVATIONS</u>				
3	Open face excavation in earth in cutting and filling in levelling including compacting of the site.	m3	263	
<u>Carting away of excavated material</u>				
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	263	
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Bill No. 1				
Bulk Earthworks				

Filling supplied by the contractor to form platforms

5	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	394	
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Compaction of surfaces

6	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	875	
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Tests

7	Allow for Mod AASHTO density tests on filling.	No	7.00	
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Item No	Quantity	Rate	Amount
<u>BILL No. 2</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.			
<u>STORMWATER CHANNELS</u>			
<u>MODEL PREAMBLES</u>			
<u>STORMWATER APRONS</u>			
<u>Cast in-situ Ref 193 mesh reinforced concrete (25MPa) apron, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>			
1	900 x 100mm apron laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc	m	120
<u>STORMWATER CHANNELS</u>			
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Section 3 Bill No. 2 Stormwater reticulation			

Cast in-situ Ref 193 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.

2	900 x 100mm V' channel 50mm deep in centre laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc	m	150
3	Extra for 700mm angle	No	6
4	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones	No	2

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Stormwater reticulation

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Stormwater reticulation

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Stormwater reticulation

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Item No		Quantity	Rate	Amount
	<u>BILL No. 3</u>			
	<u>RAINWATER TANKS AND STANDS</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Density testing on filling:</u>			
	Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches.	m3	47	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock.	m3	5	
3	Hard rock.	m3	2	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	25	
	<u>Risk of collapse of excavations:</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	95	
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	Rainwater Tanks and Stands			

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u>				
6	Backfilling to trenches, holes, etc.	m3	24		
	<u>Compaction of surfaces</u>				
7	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 90% Mod AASHTO density.	m2	37		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25Mpa/19mm Concrete</u>				
8	Strip footings.	m3	12		
	<u>REINFORCED CONCRETE</u>				
	<u>25 MPa/19mm Concrete:</u>				
9	Tank concrete slab.	m3	4		
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
10	Surface beds, slabs, etc.	m2	37		
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough Formwork to Sides:

11	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	59		
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REINFORCEMENT (PROVISIONAL)

12	Type 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	37		
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MASONRY

BRICKWORK IN FOUNDATIONS (PROVISIONAL)

Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:

13	One brick walls.	m ²	21		
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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:

14	One brick walls.	m ²	36		
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BRICKWORK AND BLOCKWORK SUNDRIES

Brickwork reinforcement:

15	230mm Wide reinforcement built in horizontally.	m	356		
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16	Ditto, but in foundations (Provisional).	m	237		
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Rainwater Tanks and Stands

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FACE BRICKWORK

"Roan satin FBX " clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:

17	Extra over brickwork for face brickwork externally.	m2	36	
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PLUMBING AND DRAINAGE

TANKS ETC

Plastic water tanks etc:

18	5000 Litre light duty cylindrical tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	6	
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19	Hole top of tank for 100mm pipe.	No	6	
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SECTION SUMMARY - EXTERNAL WORKS (PROVISIONAL)

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	<u>SECTION 4</u>			
	<u>BILL No. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<p>Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.</p> <p>Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.</p> <p>NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent BEFORE temporary structures are build.</p>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Provide the sum of R150 000.00 for Electrical Installation	Item		150 000.00
2	Add: Mark-up		%	
	<u>MODULAR STRUCTURES</u>			
3	Provide the sum of R2,800, 000.00 (Two Million and Eight Hundred Thousand Rand) for the provision and installation of 7 (Seven) Modular classrooms (60m2 per classroom) on Steel Chassis. Modular structures complete comprising of:			
	<ul style="list-style-type: none"> <u>Walls made of 40mm thick polystyrene panels clad with 0.4mm thick pre-painted Aluzinc sheeting on both sides</u> 			
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	Provisional Sums			

	<ul style="list-style-type: none"> • <u>1.1 x 1.2m high (7no. in total) Casement type Anodised aluminium window frames with 4mm clear glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing</u> • <u>0.9 x 1 .8m high (1no. in total) External door manufactured from the same materials as the walls and fitted with 3 lever mortice lock, weather boards, door stoppers and retaining hooks</u> • <u>Vinyl Sheeting on floors</u> • <u>The chassis to be manufactured from cold rolled lipped channel welded or bolted together into a rigid ladder frame. Joists are to be manufactured from steel lipped channel. All steel to be hot dip galvanised.</u> • <u>The roof is to be a dual pitched roof constructed from the same insulated panels used for the walls on single wide units and units up to 7m wide (using a king truss system)</u> • <u>Gutters and Downpipes</u> • <u>Exterior Chromadeck Skirting</u> • <u>2no. Chalkboards each size 2.4 x 1.2m and 1no. Pinning Board size 1.8 x 1.2m</u> • <u>1no. Teacher Cupboard</u> • <u>Steps at Entrances</u> • <u>Electrical Installation and Connection (Surface mounted DB, Earth Leakage, 4no. SGL Flourescent lights - 1.2m, 2no. SGL Plugs - 16AMP, 1no. Light Switch</u> • <u>All Internal electrical wiring to be designed for a 220 volt supply, in accordance with SABS 0142:1987</u> 	Item	2 800 000.00	
4	Add: Mark-up		%	
5	Add: Attendance		%	
	Carried to Collection		R	
Section 4 Bill No. 1 Provisional Sums				

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:

- | | |
|---|---|
| 6 | Provide the sum of R21 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 000.00 a month for the full contract duration. |
| 7 | Add: Mark-up |

Item

21 000.00

%

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3	EXTERNAL WORKS (PROVISIONAL)	60	
4	PROVISIONAL SUMS	64	
	SUB-TOTAL		R
	<u>CONTINGENCIES</u>		
	Allow ten per cent (10%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R
	SUB-TOTAL		R
	Add Value Added Tax at the rate of 15%		R
	Carried to Form of Offer and Acceptance		R