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PREAMBLES FOR TRADE

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the Model Preambles will be entertained. Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles. The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles.

PRICING OF PRELIMINARIES

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.

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

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

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"COMMENCEMENT DATE" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

"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 Practise"** is added:

"FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

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

Clause 1.1 Definition of **"Principal Agent"** is amended by replacing it with the following:

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

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"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 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:

No clause

Fixed: _____ Value related: _____ Time related: _____

OBJECTIVE AND PREPARATION

2 A2 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

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3	<p>A3 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>				
4	<p>A4 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			
5	<p>A5 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 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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6	<p>A6 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>A7 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: The provisions herein include <i>inter alia</i>, compliance with <u>all</u> the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 7(1) requiring the compilation of a health and safety plan, as well as Regulation 8.5 requiring the appointment of a construction supervisor</p> <p>See also clause C10 of Section C - Specific Preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
8	<p>A8 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
9	<p>A9 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
10	<p>A10 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 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

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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 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**

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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

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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: _____ Value related: _____ Time related: _____

Item

11 **A11 LIABILITY INSURANCES**

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

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12 **A12 EFFECTING INSURANCES**

Clause 12.0

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13	A13.0 No clause	N/A	
14	<p>A14 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>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)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>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</p> <p>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.</p> <p>14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>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</p>		
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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

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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 **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**

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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), whereafter 14.7 shall be applicable

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15 **A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

EXECUTION

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of **commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4

Fixed:_____ Value related:_____ Time related:_____

16 **A16 ACCESS TO THE WORKS**

Clause 16.0

Fixed:_____ Value related:_____ Time related:_____

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17	<p>A17 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>	Item		
18	<p>A18 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
19	<p>A19 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
20	<p>A20 NOMINATED SUB-CONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No Clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
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21	<p>A21 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No Clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
22	<p>A22 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>COMPLETION</u></p>	Item		
24	<p>A24 PRACTICAL COMPLETION</p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
25	<p>A25 WORK'S COMPLETION</p> <p>Clause 25.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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26	<p>A26 FINAL COMPLETION</p> <p>Clause 26.0</p> <p>Clause 26.1.2 s amended by inserting "#" next 26.1.2</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
27	<p>A27 LATENT DEFECTS LIABILITY PERIOD</p> <p>Clause 27.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
28	<p>A28 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
29	<p>A29 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 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
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31 **A31 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"

PAYMENT

Clause 31.8 is amended by replacing it with the following two alternative clauses:

Alternative A

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 **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:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

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**

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

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**

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 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:

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31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).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**

31.8(B).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

31.8(B).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**

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 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**"

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33	<p>A33 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
34	<p>A34 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 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</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 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
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A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

CANCELLATION

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

36 A37 CANCELLATION BY EMPLOYER – LOSS AND DAMAGE

Clause 37.0

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Clause 37.0 is amended by the addition of the following clause:

Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

37 A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

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38	<p>A39 CANCELLATION - CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>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"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
39	<p>A40 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>SUBSTITUTE PROVISIONS</u></p>	Item		
40	<p>A41 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>CONTRACT VARIABLES</u></p>	Item		
<p>Carried to Collection</p>			R	
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THE SCHEDULE (CONTRACT DATA)

A42 PRE-TENDER INFORMATION

Clause 42.0

Tenderers are referred to the document C1.2 Contract for variables pertaining to this contract

Fixed: _____ Value related: _____ Time
related: _____

Item

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

42 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

43 B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

44 B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

45 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

46 B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

47 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

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48	<p>B2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing “JBCC Form of Tender” with “Form of Offer and Acceptance” Fixed:_____ Value related:_____ Time related:_____</p> <p><u>B3.0 THE SITE</u></p>	Item		
49	<p>B3.1 Defined works area</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
50	<p>B3.2 Geotechnical investigation</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
51	<p>B3.3 Inspection of the site</p> <p>Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission. Fixed:_____ Value related:_____ Time related:_____</p>	Item		
52	<p>B3.4 Existing premises occupied</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
53	<p>B3.5 Previous work - dimensional accuracy</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
54	<p>B3.6 Previous work - defects</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
55	<p>B3.7 Services - known</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
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56	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item		
57	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item		
58	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item		
59	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B4.0 MANAGEMENT OF CONTRACT</u>			
60	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: _____	Item		
61	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item		
62	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item		
63	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
64	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
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**B5.0 SAMPLES, SHOP DRAWINGS AND
MANUFACTURERS' INSTRUCTIONS**

65 ***B5.1 Samples of materials***

Fixed: _____ Value related: _____ Time
related: _____

Item

66 ***B5.2 Workmanship samples***

Fixed: _____ Value related: _____ Time
related: _____

Item

67 ***B5.3 Shop drawings***

Fixed: _____ Value related: _____ Time
related: _____

Item

68 ***B5.4 Compliance with manufacturers instruction***

Fixed: _____ Value related: _____ Time
related: _____

Item

B6.0 TEMPORARY WORKS AND PLANT

69 ***B6.1 Deposits and fees***

Fixed: _____ Value related: _____ Time
related: _____

Item

70 ***B6.2 Enclosure of the works***

Fixed: _____ Value related: _____ Time
related: _____

Item

71 ***B6.3 Advertising***

Fixed: _____ Value related: _____ Time
related: _____

Item

72 ***B6.4 Plant, equipment, sheds and offices***

Fixed: _____ Value related: _____ Time
related: _____

Item

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9.0 ATTENDANCE ON N/S SUBCONTRACTORS

81 ***B9.1 General attendance***

Fixed: _____ Value related: _____ Time
related: _____

Item

82 ***B9.2 Special attendance***

Fixed: _____ Value related: _____ Time
related: _____

Item

83 ***B9.3 Commissioning - fuel, water and electricity***

Fixed: _____ Value related: _____ Time
related: _____

Item

B10. FINANCIAL ASPECTS

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

Fixed: _____ Value related: _____ Time
related: _____

Item

85 ***B10.2 Payment for preliminaries***

Fixed: _____ Value related: _____ Time
related: _____

Item

86 ***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 "in his priced **bills of quantities /lump
sum document** submitted with his tender offer"

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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B11. GENERAL

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

92 ***11.5 Disturbance***

Fixed: _____ Value related: _____ Time
related: _____

Item

93 ***B11.6 Environmental disturbance***

Fixed: _____ Value related: _____ Time
related: _____

Item

94 ***B11.7 Works cleaning and clearing***

Fixed: _____ Value related: _____ Time
related: _____

Item

95 ***B11.8 Vermin***

Fixed: _____ Value related: _____ Time
related: _____

Item

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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 of documentation is complete: NO

12.1.3 Interest of agents

[2.4] Details: See Contract Data Part C/1 of Tender

12.1.4 Defined works area

[3.1] Details: As per Tender Data

12.1.5 Geotechnical investigation

[3.2] Details: NONE

12.1.6 Existing premises occupied

[3.4] Specific requirements: N/A

12.1.7 Previous work - dimensional accuracy

[3.5] Details: To be checked on site by contractor prior to building operations.

12.1.8 Previous work - defects

[3.6] Details: To be checked on site by contractor prior to building operations.

12.1.9 Services - known

[3.7] Details: Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.

12.1.10 Protection of trees

[3.9] Specific requirements: All trees on the site outside of the position of the proposed structure must be protected.

12.1.11 Inspection of adjoining properties[3.11] Specific requirements: The contractor must inspect adjoining properties and immediately bring to the notice of the Principal Agent of any consequences that may arise from the building works.

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12.1.12 Enclosure of the works

[6.2] Specific requirements: The contractor shall enclose the works as required by the Occupational Health and Safety Act.

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, chairs, 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 3000 x 3420mm all as per EPWP requirements constructed of suitable boarding with flat smooth surface and with edging bead 40mm thick all round.

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 EPWP "orange" with 40mm wide white dividing lines. All wording shall be inscribed in black painted sans serif lettering.

Sub-contractor's individual boards will be allowed on the site subject to the written approval of the Representative/Agent.

12.1.15 **Subcontractors' notice board**

[6.6] Specific requirements: *NO*

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12.1.16 **Water**

[7.2] Option A (by contractor)
(YES)

Option B (by employer - free of charge when available)
(YES)

Option C (by employer - metered)
(NO)

12.1.17 **Electricity**

[7.3] Option A (by contractor)
(YES)

Option B (by employer - free of charge when available)
(NO)

Option C (by employer - metered)
(NO)

12.1.18 **Telecommunications**

[7.4] Telephone
(YES)

Facsimile
(NO)

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 (Only when existing buildings)
(YES)

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12.1.21 **Special attendance**

[9.2] **Electrical sub-contractor** (1) details: Site Meetings

12.1.22 **Protection of works**

[11.1] Specific requirements:

The contractor shall protect the works for the duration of the contract.

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

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)
(YES / NO)

Option B (calculates)
(YES / NO)

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)
(YES / NO)

Option B (detailed breakdown)
(YES / NO)

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12.2.3 *Additional agreed preliminaries items*

Details:**N/A**

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SCHEDULE OF SUPPLEMENTARY INFORMATION

NOTE:

The information listed below is in respect of certain clauses in the Preliminaries, requiring the supplementary information

Amount of insurance against injury to person or property in respect of any single occurrence **R 5 million**

Amount of insurance against removal of support to adjoining properties in respect of any single occurrence

Not specifically prescribed

Contract period -
8 (Eight) months

The date for site handover :- TBA

Amount of penalty per day on which the completion of the works may be in arrear:

R0.0275 per R100 of contract value per day (Excluding VAT)

Specification of materials and methods to be used:
Specification of Materials and Methods to be used - **PW 371, Fourth Revision, October 1993**

Edition of Standard System of measuring building work:
Seven Edition including the latest amendments

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

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101	<p>C1 CONTRACT DRAWINGS</p> <p>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</p> <p>Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
102	<p>C2 GENERAL PREAMBLES</p> <p>The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
103	<p>C3 TRADE NAMES</p> <p>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</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		
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104	<p>C4 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105	<p>C5 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
106	<p>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer 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> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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107	<p>C7 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>As the works falls within a security 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 Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
108	<p>C8 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 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> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
109	<p>C9 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>In terms of article 119 of the defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **Bills of Quantities**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. Also see Part C3.6 Social and Economic Deliverables F1

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 of "Section 1: Preliminaries (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

110 C10.1 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: _____

Item

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111	<p>C10.2 AWARENESS WORKSHOPS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
112	<p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
113	<p>C10.4 ACCESS TO CONDOMS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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114	<p>C10.5 MONITORING</p> <p>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</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
115	<p>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 19093 (Act No. 85 of 1993), edition 23 Code of Practice.</p> <p>It is required of the contractor to thoroughly study the 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.</p> <p>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 A3.10 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>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.</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
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116	<p>C12. SOCIAL AND ECONOMIC DELIVERABLES IN CONSTRUCTION WORKS CONTRACTS</p> <p>The contractor shall thoroughly study and comply with the requirements and specification data set out in Part C3.6: Specification for Social and Economic Deliverables in Construction.</p> <p>Provision for pricing of Social and Economic Deliverables is made under items C12.1 to C12.4 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, and no additional items or extras to the contract in this regard shall be entertained.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
117	<p>C12.1 UTILIZE LOCAL RESOURCES</p> <p>Deliverable A1: Utilize local resources as described in the Specification Data.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
118	<p>C12.2 PROVIDE EXPERIENTIAL WORK OPPORTUNITIES TOWARDS A TECHNICAL QUALIFICATION FOR DESIGNATED PERSONS</p> <p>Deliverables E2: Provide experiential work opportunities towards a technical qualification for designated persons as described in the Specification Data.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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119	<p>C12.3 PROVIDE EXPERIENTIAL WORK OPPORTUNITIES AND TRAINING TOWARDS TRADE COMPETENCIES FOR DESIGNATED PERSONS</p> <p>Deliverables E3: Provide experiential work opportunities and training towards trade competencies for designated persons as described in the Specification Data.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
120	<p>C12.4 PROVIDE AND MANAGE TRAINING PROVIDERS TO PROVIDE LIFE SKILLS TRAINING TO EMPLOYEES.</p> <p>Deliverables E4: Procure and manage a training provider to provide spesific training for the minimum number of employees as per Part C3.6 in life skills training. As described in the Specification Data.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
	<p>C13 LABOUR-INTESIVE WORKS</p> <p>Those parts of the contract to be constructed using labour-intensive methods have been marked in the bill of quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the 'Specification for social and economic deliverables in construction works contracts'.</p>			
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121 **C13.1 LABOUR INTENSIVE**

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

Fixed:_____ Value related:_____
Time related:_____

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	<u>BILL NO. 1</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under floors	m3	31	
2	Trenches	m3	57	
3	Holes	m3	2	
4	Trenches and holes for thickening under surface beds etc	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	10	
6	Hard rock	m3	5	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	67	
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	<u>Risk of collapse of excavations</u>				
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	178		
	<u>Keeping excavations free of water</u>				
9	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
10	Backfilling to trenches, holes, etc	m3	24		
	<u>Coarse river sand filling supplied by the contractor</u>				
11	Under floors etc	m3	10		
	<u>Imported filling G5 approved material supplied and onto site by contractor, compacted to 95% Mod. AASHTO density:</u>				
12	Under floors etc	m3	31		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	208		
	<u>Prescribed density tests on filling</u>				
14	"Modified AASHTO Density" test	No	8		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	208		
16	To bottoms and sides of trenches etc	m2	241		
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Earthworks (Provisional)

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2: GRADE R BLOCK</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15MPa/19mm concrete</u>			
1	Surface blinding under footings and bases	m3	4	
	<u>REINFORCED CONCRETE CAST AGAINST FORMWORK</u>			
	<u>30MPa/19mm concrete</u>			
2	Surface beds cast in panels on waterproofing	m3	26	
3	Sloping apron including forming walls	m3	12	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
4	Strip footings	m3	19	
5	Bases	m3	2	
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	Section No. 2 Grade R Classroom Block Bill No. 2 Concrete, Formwork, and Reinforcement ECD PROGRAMMES			

TEST BLOCKS

- 6 Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent

Item

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

- 7 Surface beds, slabs, etc to falls

m2

94

Finishing top surfaces of concrete smooth with a power float

- 8 Surface beds, slabs, etc

m2

167

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Section No. 2
Grade R Classroom Block
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Concrete, Formwork, and Reinforcement
ECD PROGRAMMES

FORMWORK

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

9	Bases (Provisional)	m2	5
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	137
<u>Holding down bolts, etc</u>			
11	Set of four M16 x 300mm Long holding down bolts each with 60 x 60 x 10mm thick plates welded to one end and 80mm long thread on bolt on the other end with nuts and washers cast in concrete in exact position	Sets	16

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MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces

12	12mm Joints not exceeding 300mm high along edges of surface beds	m	131
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Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces

13	12mm Joints not exceeding 300mm high	m	97
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Saw cut joints

14	6 x 20mm Saw cut joints in top of concrete	m	29
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REINFORCEMENT (PROVISIONAL)

Mild steel reinforcement to structural concrete work

15	Various diameter bars	t	0.66
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Fabric reinforcement

16	Type 100 fabric reinforcement in concrete surface beds, slabs, etc	m2	94
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17	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	167
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	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	NOTE: All masonry shall be in accordance with SANS 2001-CM1			
	<u>FOUNDATIONS (PROVISIONAL)</u>			
	<u>BRICKWORK</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	Piers	m3	1	
2	Half brick walls	m2	10	
3	One brick walls	m2	72	
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
4	Piers	m3	1	
5	Half brick walls	m2	34	
6	Half brick walls in beamfilling	m2	23	
7	One brick walls of two brick skins bagged and sealed	m2	242	
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	Section No. 2 Grade R Classroom Block Bill No. 3 Masonry ECD PROGRAMMES			

BRICKWORK SUNDRIES

Joint forming material in movement joints

8	12mm Bitumen impregnated fibre board built in vertically through brick walls	m2	15
9	10mm "Sondor Joinex" closed cell expanded polyethylene joint filler with hinged blocking piece built vertically through brick wall not exceeding 300mm wide	m	24

Brickwork reinforcement

10	75mm Wide reinforcement built in horizontally	m	183
11	150mm Wide reinforcement built in horizontally	m	1 628

"Fabcon" prestressed fabricated lintels

12	110 x 75mm Lintels in lengths not exceeding 3m	m	55
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Turning pieces

13	110mm Wide turning piece to lintels etc	m	2
14	230mm Wide turning piece to lintels etc	m	23

Galvanised hoop iron cramps, ties, etc

15	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	64
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Air bricks etc

16	229 x 152mm Clay vermin proof air brick	No	8
17	233 x 175mm Foam plastic air vent	No	8

FACE BRICKWORK

Face brickwork to be "Corobrik®" Firelight Satin FBX of 20-30MPa nominal compressive strength in Class II mortar with recessed horizontal and recessed vertical joints

18	Extra over brickwork for face brickwork	m2	304
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Section No. 2
Grade R Classroom Block
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Masonry
ECD PROGRAMMES

19	Extra over brickwork for face brickwork in foundations (Provisional)	m2	25
20	Extra over brickwork for brick-on-edge header course lintel	m	25
21	Fair raking cutting	m	30
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik® Firelight Satin FBX" face bricks, pointed with recessed joints on all exposed faces</u>		
22	220mm Wide sill set sloping and slightly projecting	m	33
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>		
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>		
23	12 x 150mm Wide sills set flat and slightly projecting	m	23

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Masonry

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	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	27	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	166	
	<u>JOINT SEALANTS ETC</u>			
	<u>Silicone sealing compound</u>			
3	"Bostik" silicone sealant applied with a pressure caulking gun sealing around metal window and timber door frames	m	158	
	<u>"Thioflex" two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 20mm In saw cut joints in floors	m	29	
5	10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	154	
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	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS ETC</u>			
	<p>NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation</p> <p>NOTE: All roof covering to be installed to manufacturers detail and applicable SANS codes. All roof sheeting shall be laid under a 5 year written guarantee for site workmanship and watertightness</p>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,5mm "Chromadek" or other approved, Colomate finish galvanised metal IBR profile roof sheeting at 17.5 degrees fixed to intermediate timber purlins at 1 250mm centres and to ridge and eaves with minimum 50mm sheeting end overlaps, all in accordance with architects drawings and manufacturer's specifications</u>			
1	Roof covering with pitch not exceeding 25 degrees (measured nett)	m2	317	
2	Ridge capping 450mm girth	m	23	
3	Broad flute serrated poly ridge closers	m	47	
	<u>"Sondor"</u>			
4	Narrow flute eaves closers	m	47	
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ROOF AND WALL INSULATION

"Sisalation 420" heavy industrial grade aluminium foil based insulation

5	Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with tiling battens, purlins, etc	m2	169
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Bill No. 6
Carpentry and Joinery
ECD PROGRAMMES

EAVES, VERGES, ETC

"Everite FC77" pressed fibre-cement

2	12 x 225mm Fascia boards including galvanised steel H-profile jointing strips	m	70
3	200 x 80mm Moulded socketless barge board (code: 721-731) with uPVC H-profile barge joiners	m	63

SKIRTINGS

Wrought meranti

4	19 x 75mm Skirting including 19mm quadrant bead plugged	m	94
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DOORS ETC

TIMBER DOORS AS TDM OR SIMILAR APPROVED

Note:

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of constriction acceptable to the Department, i.e. mortice and tenon where is exposed on the outside edge of stiles and where the tenon is wedged to form a dovetailed shape

"Saligna Blaco" doors formed 40 x 110mm stiles and top rail, 20 x 150mm ledge and 20 x 110mm braces and 20 x 225mm bottom ledge, filled in flush on outer face with 20 x 75mm V-jointed vertical boarding, top rail and door hung to pressed steel door frame

5	44mm Thick framed, ledged and braced flush one side batten door 813 x 2032mm high and with 38 x 76mm (extreme) once rebated, once chamfered and once hollow grooved weatherboard framed into bottom ledge, bedded in white lead, screwed and pelleted	No	2
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Carpentry and Joinery
ECD PROGRAMMES

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FLUSH DOORS

Solid chipcore flush doors with commercial veneer covering on both sides and hardwood edge strips, hung to steel frames

6	44mm Door size 813 x 2032mm high	No	2
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**NOTICE BOARDS, KEYBOARDS,
DUCKBOARDS, ETC**

"Green Chalkboard"

7	"CKS-38-1980" or similar approved chalkboard size 4800 x 1200mm high complete with chalk rail and fixing to walls	No	2
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Saligna

8	28 x 60mm Rebated frames with two labours plugged	m	22
9	12mm Thick masonite backboard	m2	7

"Flortime Premier" pinning board

10	6mm Pinning board overall size 1500 x 1200mm high glued to backboard (elsewhere)	No	4
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Sundries

11	38 x 228mm "SA Pine" catwalks	m	21
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BUDGETARY ALLOWANCES

12	Allow a Budgetary Allowance of R 80,000.00 (Eighty Thousand Rand) for the supply and installation of timber joinery works complete to 2 No. ECD classrooms	Item	
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Carpentry and Joinery

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Bill No. 8
Floor coverings
ECD PROGRAMMES

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	<u>BILL NO. 9</u>			
	<u>IRONMONGERY</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>LOCKS</u>			
	<u>"Solid"</u>			
	The following locks are to be suitable for master key operation			
1	"Reference 390/313" Four lever lockset with striking plate fixed to metal	No	4	
2	Master key	No	2	
	<u>Manufactured by "Union" or similar approved</u>			
3	47mm "MG47" Padlock	No	2	
	<u>HANDLES</u>			
	<u>"Solid"</u>			
4	"Ref 390/311" flush handle	No	8	
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Bill No. 9

Ironmongery

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	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Welded gate and frame</u>			
1	Single gate 900 x 2258mm high of 60 x 40 x 2,5mm hollow section frame filled in with 40 x 20 x 2,5mm hollow section verticals at 120mm centres, fitted with narrow stile lock box and backing plate and two 100mm heavy duty butt hinges welded on	No	4	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Double rebated frames suitable for half brick walls with a pair of 100mm galvanised steel loose - pin hinges per door leaf</u>			
2	Frame for door 813 x 2032mm high	No	2	
	<u>1.2mm Double rebated frames suitable for one brick walls with a pair of 100mm galvanised steel loose - pin hinges per door leaf</u>			
3	Frame for door 813 x 2032mm high	No	2	
	Carried to Collection		R	
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GALVANISED STEEL WINDOWS, DOORS, ETC

Standard school windows with factory fitted burglar bars

4	Window type SS Industrial type 3 HCH, 889mm x 457mm high (W3)	No	4
5	Window type SS Industrial type 6 HCH, 889mm x 854mm high (W1)	No	12
6	Window type SS Industrial type 6/4, 889mm x 1248mm high (W2)	No	10

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Metalwork

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	<u>BILL NO. 11</u>			
	<u>STRUCTURAL STEELWORK</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>SUNDRY STEELWORK</u>			
	<u>Bolts</u>			
1	M12 Chemical expansion anchors with loose bolts	kg	20	
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete</u>			
2	76 x 76 x 5mm Square-section columns, with and including 114 x 60 x 5mm purpose made U-Shaped channels welded to one end with two times holed for 12mm bolts (elsewhere) and 300 x 300 x 5mm base plates welded to the other end with four times holed for 16mm diameter bolts (elsewhere)	t	0.84	
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Plastering
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	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium gutters with baked enamel finish</u>			
1	100 x 125mm Ogee eaves gutters	m	62	
2	Extra over 100 x 125mm ogee eaves gutter for stopped end	No	8	
3	Extra over 100 x 125mm ogee eaves gutter for outlet for 75 x 100mm pipe	No	8	
4	75 x 100mm Rainwater pipes	m	28	
5	Extra over 75 x 100mm rainwater pipe for bend	No	16	
6	Extra over rainwater pipe for shoe	No	24	
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SANITARY FITTINGS

"Franke" stainless steel

7	1200 x 535mm Drop-on type sink and drainer with single 460 x 355 x 150mm end bowl and 100mm high splashback fixed to approved brackets	No	2
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Sundries

8	Point joint between sanitary fittings and tiled wall with an approved white silicone sealant	m	4
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WASTE UNIONS ETC

9	32mm "Cobra 301" waste union	No	4
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TRAPS ETC

Chromium plated

10	32mm "Cobra Watertech No. 345/50" CP bottle trap	No	2
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TAPS, VALVES, ETC

Brass

11	15mm "Ball-o-stop" valve	No	2
12	15mm Fullway gate valve	No	2
13	22mm Fullway gate valve	No	2

"Cobra Watertech"

14	15mm Bibtap	No	2
15	15mm, 111CP "Star" pillartap	No	2

SANITARY PLUMBING

uPVC pipes

16	50mm Pipes	m	2
17	50mm Pipes chased into surface beds	m	4

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<u>Extra over uPVC pipes for fittings</u>					
18	50mm Bend	No	2		
19	50mm Junction	No	2		
20	50mm Access bend	No	2		
21	50mm Access junction	No	2		
<u>Gulleys:</u>					
22	110mm UPVC gulley trap jointed to drain, complete with hopper head and grid, and the whole set on and encased in concrete Class 20/19 carried up 75mm above ground to form kerb, dished down to grating, and finished on all exposed surfaces with 1:3 cement render with angles rounded, including necessary excavation and formwork.	No	2		
<u>WATER SUPPLIES</u>					
<u>"Polylink" Class 12 high density polypropylene pipes to SABS 1315 not exceeding 1m deep with brass compression fittings</u>					
23	25mm Pipes laid in and including trenches	m	120		
24	32mm Pipes laid in and including trenches	m	90		
<u>Extra over "Polycop" polypropylene pipes for brass compression fittings</u>					
25	25mm Fittings	No	6		
26	32mm Fittings	No	4		
<u>Class 0 copper pipes</u>					
27	15mm Pipes	m	4		
28	22mm Pipes	m	10		
<u>Class 1 copper pipes</u>					
29	15mm Pipes chased into brick walls	m	4		
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30	22mm Pipes chased into brick walls	m	8
	<u>Class 2 copper pipes</u>		
31	15mm Pipes	m	2
32	22mm Pipes	m	4
	<u>Extra over class 0 copper pipes for capillary fittings</u>		
33	15mm Fittings	No	10
34	22mm Fittings	No	6
	<u>Extra over class 1 copper pipes for capillary fittings</u>		
35	15mm Fittings	No	4
36	22mm Fittings	No	4
	<u>Extra over class 2 copper pipes for conex compression fittings</u>		
37	15mm Fittings	No	4
38	22mm Fittings	m	4
	<u>Copper overflow and service pipes</u>		
39	15mm Service pipes 350 mm girth	No	2
	<u>TESTING</u>		
40	Testing water pipe system		Item
	<u>FIRE APPLIANCES ETC</u>		
41	4,5kg Carbon dioxide fire extinguisher	No	2

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Plastic sleeves for pipes not exceeding 100mm diameter

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	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear safety glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	2	
2	Panes exceeding 0,5m2 and not exceeding 2m2	m2	26	
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	Section No. 2 Grade R Classroom Block Bill No. 14 Glazing ECD PROGRAMMES			

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	<u>SECTION NO. 2: GRADE R BLOCK</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and apply one alkaline resistant primer, one under coat and two finishing coat of "Wall & All" paint as SABS Specification 1586 Grade 1</u>			
1	On internal walls	m2	276	
	<u>ON PLASTER BOARD</u>			
	<u>One coat universal undercoat and two coats "Polvin Super Acrylic" paint</u>			
2	On ceilings and cornices	m2	317	
	<u>ON FIBRE-CEMENT</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	On sills	m2	5	
4	On fascias and barge boards	m2	66	
	Carried to Collection			
	Section No. 2 Grade R Classroom Block Bill No. 15 Paintwork ECD PROGRAMMES		R	

ON METAL

One coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on steel

5	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	15
6	On columns and beams	m2	16

ON WOOD

One coat of general purpose wood primer as SABS Specification 678 Type III

7	On backs of frames, linings, etc not exceeding 300mm wide	m2	7
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Prepare , prime with general purpose wood primer as SABS Specification 678 Type III and apply one under coat as SABS Specification 681 Type II, and two finishing coats of high gloss enamel paint as SABS Specification 630 Type I on wood

8	On doors	m2	15
9	On skirtings, rails, etc not exceeding 300 mm girth	m	89

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Paintwork

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	<u>BILL NO. 1</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m3	22		
2	Holes	m3	4		
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>				
3	Latrine pit	m3	57		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
4	Soft rock	m3	7		
5	Hard rock	m3	3		
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod. AASHTO density</u>				
6	Exceeding 0.50m and not exceeding 1.50m deep for placing and removing formwork to walls, etc., 200mm away from excavated face	m2	18		
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7	Exceeding 1.50m and not exceeding 3.00m deep for placing and removing formwork to walls, etc., 200mm away from excavated face	m2	55		
	<u>Extra over back excavation in earth for working space for excavation in soft rock material</u>				
8	Exceeding 0.50m and not exceeding 1.50m deep for placing and removing formwork to walls, strip footing, etc., 200mm away from excavated face	m2	2		
9	Exceeding 1.50m and not exceeding 3.00m deep for placing and removing formwork to walls, strip footing, etc., 200mm away from excavated face	m2	5		
	<u>Extra over back excavation in earth for working space for excavation in hard rock material</u>				
10	Exceeding 0.50m and not exceeding 1.50m deep for placing and removing formwork to walls, strip footing, etc., 200mm away from excavated face	m2	1		
11	Exceeding 1.50m and not exceeding 3.00m deep for placing and removing formwork to walls, strip footing, etc., 200mm away from excavated face	m2	2		
	<u>Risk of collapse of excavations</u>				
12	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24		
13	Sides of trench and hole excavations exceeding 1,5m deep	m2	65		
	<u>Extra over all excavations for carting away</u>				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	86		
	<u>Keeping excavations free of water</u>				
15	Keep excavations free of water (other than subterranean water)		Item		
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	<u>De-watering of seepage water and water from other sub-soil sources</u>				
16	Dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor including all temporary pipes, drainage sumps, silt trap, connections, well points, etc		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site stabilised with 8% cement per volume, compacted to 98% Mod AASHTO density</u>				
17	Backfilling to trenches, etc	m3	3		
	<u>G6 Earth filling supplied by the Contractor and brought to site and compacted to 98% Mod AASHTO density</u>				
18	Under floors, steps, pavings, etc	m3	7		
	<u>Soil supplied by the contractor stabilised with 5% cement per volume, compacted to 100% Mod AASHTO density</u>				
19	Backfilling behind pit walls, etc	m3	21		
	<u>Coarse clean river sand filling supplied by the contractor</u>				
20	Under floors, steps, pavings, etc	m3	3		
	<u>Compaction of surfaces</u>				
21	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	64		
	Carried to Collection				
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SOIL POISONING

Soil insecticide in accordance with SANS 5859

22 Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming

m2

10

23 To bottoms and sides of trenches etc

m2

14

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	<u>BILL NO. 2</u>				
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
1	Surface blinding under footings and bases	m3	4		
2	Filling in cavity walls	m3	5		
	<u>REINFORCED CONCRETE CAST AGAINST FORMWORK</u>				
	<u>30MPa/19mm concrete</u>				
3	Strip footings	m3	10		
4	Surface beds cast in panels on waterproofing	m3	11		
5	Sloping apron including forming falls	m3	5		
6	Bases	m3	10		
7	Slabs including beams and inverted beams	m3	3		
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TEST BLOCKS

- 8 Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete set of three, made, stored, cured and tested in accordance with SANS 2001-CC1, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Structural Engineer. (Provisional)

Sets 25

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

- 9 Surface beds, slabs, bases, etc
- 10 Surface beds, slabs, apron, etc to falls

m2 63

m2 10

SLEEVES

Plastic sleeves for pipes cast in concrete slabs not exceeding 300mm long

- 11 110mm Sleeve
- 12 250mm Sleeve

No 6

No 6

Core drilling of holes for pipes exceeding 200mm and not exceeding 250mm diameter

- 13 255mm Thick reinforced concrete slab, beam, wall, etc

No 1

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ECD PROGRAMMES

FORMWORK

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

14	Strip foundations	m2	6
15	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	20
16	Edges of surface bed panels, ramps, etc not exceeding 300mm high or wide	m	67

Rough formwork to soffits

17	Soffit of slab not exceeding 250mm thick propped up exceeding 1.5m and not exceeding 3.5m	m2	19
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MOVEMENT JOINTS, ETC

Expansion joints with 10mm Jointex between vertical concrete and brick surfaces

18	Not exceeding 300mm wide	m	20
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Saw cut joints

19	3 x 40mm Saw cut joints in top of concrete	m	6
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REINFORCEMENT (PROVISIONAL)

High tensile and mild steel reinforcement to structural concrete work

20	Various diameter reinforcing bars	t	0.370
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	<u>BILL NO. 3</u>			
	<u>PRECAST CONCRETE</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	NOTE: All precast/prestressed concrete shall be in accordance with SANS 2001-CC1			
	<u>PRECAST CONCRETE</u>			
	<u>Precast concrete slab for toilet pedestal</u>			
1	470 x 600 x 150mm Thick reinforced slab including 250mm diameter opening	No	6	
	<u>Prefabricated pre-stressed concrete ribs</u>			
2	990 x 447.5 x 100mm Thick concrete slab with 20 x 20mm chamfer around top edge, including ref 193 mesh, two 10mm diameter galvanised continuous threaded lifting bars with bolt and nut to end of bars and with 50 x 50 x 5mm thick galvanised plate with 12mm diameter hole drilled in the centre for 10mm handle bar to slide through and secured through the slab using 15mm pipe sleeve, including all necessary formwork	No	6	
	Carried to Collection			
	Section No. 3 Ablution Block Bill No. 3 Precast Concrete ECD PROGRAMMES		R	

3	1 045 x 447.5 x 100mm Thick concrete slab with 20 x 20mm chamfer around top edge, including ref 193 mesh, two 10mm diameter galvanised continuous threaded lifting bars with bolt and nut to end of bars and with 50 x 50 x 5mm thick galvanised plate with 12mm diameter hole drilled in the centre for 10mm handle bar to slide through and secured through the slab using 15mm pipe sleeve, including all necessary formwork	No	2		
4	1 265 x 447.5 x 100mm Thick concrete slab with 20 x 20mm chamfer around top edge, including ref 193 mesh, two 10mm diameter galvanised continuous threaded lifting bars with bolt and nut to end of bars and with 50 x 50 x 5mm thick galvanised plate with 12mm diameter hole drilled in the centre for 10mm handle bar to slide through and secured through the slab using 15mm pipe sleeve, including all necessary formwork	No	2		
5	220 x 100mm Pre-stressed concrete rib in lengths not exceeding 5m	m	5		
6	220 x 100mm Pre-stressed concrete rib in lengths exceeding 5m and not exceeding 7,5m	m	11		
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Precast Concrete

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	<u>BILL NO. 4</u>				
	<u>MASONRY</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	NOTE: All masonry shall be in accordance with SANS 2001-CM1				
	<u>BRICKWORK</u>				
	<u>FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	One brick walls	m2	57		
2	330mm Hollow walls of two half brick skins including wire ties	m2	42		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
3	Half brick walls	m2	22		
4	Half brick walls in beamfilling	m2	3		
5	One brick walls	m2	66		
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<u>BRICKWORK SUNDRIES</u>					
<u>Bagging of 1:3 cement and sand mixture</u>					
6	On brick walls, piers, etc	m2	140		
<u>Movement joints with "Jointex" between horizontal concrete and brick surfaces</u>					
7	10mm Joints not exceeding 300mm wide	m	40		
<u>Brickwork reinforcement</u>					
8	75mm Wide reinforcement built in horizontally	m	177		
9	150mm Wide reinforcement built in horizontally	m	412		
<u>Pre-stressed fabricated lintels</u>					
10	110 x 75mm Lintels in lengths not exceeding 3m	m	7		
<u>Galvanised hoop iron cramps, ties, etc</u>					
11	30 x 1,6mm Roof tie 1,5m long with one end built into brickwork and other end fixed to timber	No	16		
<u>Air bricks etc</u>					
12	229 x 152mm Clay vermin proof air brick	No	9		
<u>FACE BRICKWORK</u>					
<u>Face brickwork to be "Corobrik®" Firelight Satin FBX of 20-30MPa nominal compressive strength in Class II mortar with recessed horizontal and recessed vertical joints</u>					
13	Extra over NFX brickwork for face brickwork in foundations (Provisional)	m2	9		
14	Extra over NFP brickwork for face brickwork	m2	64		
15	Extra over NFP brickwork for brick-on-edge header course lintels 1 course high, pointed on face and 115mm soffit	m	9		
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	<u>BILL NO. 5</u>				
	<u>WATERPROOFING</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>				
1	In walls	m2	8		
2	Under slabs on brickwork	m	27		
	<u>Two coats of "Brixeal" or other approved bitumen waterproofing coating</u>				
3	On bagged brick walls	m2	98		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
4	Under surface beds	m2	55		
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JOINT SEALANTS

Pre-compressed bitumen impregnated foam plastic joint sealing strips

5	10 x 10mm In joints between frames and walls	m	61
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"Thioflex" two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

6	3 x 40mm In saw cut joints in floors	m	6
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7	10 x 10mm In expansion joints in floors	m	100
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Bill No. 6

Roof Coverings

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	<p><u>TIMBER ROOF CONSTRUCTION</u></p> <p><u>Roof Trusses:</u></p> <p>The following is applicable in respect of plate nailed roof trusses:</p> <p>Trusses are at maximum 1000mm centres. Roof covering is 0,50mm colomate galvanised metal IBR on timber purlins</p> <p>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the Architect and/or on site before design or fabrication commences</p> <p><u>Plate nailed timber roof construction grade V4 minimum</u></p>				
1	<p>Design, supply and erect the complete double pitch roof structure to new building (approx. 30m² on flat) including purlins, braces, battens, gangboarding, wall plates, roof ties, gusset plates, bolts, etc</p>	No	1		
	<p><u>EAVES, VERGES, ETC</u></p>				
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Carpentry and Joinery

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	<u>BILL NO. 8</u>				
	<u>IRONMONGERY</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>HINGES, BOLTS, ETC</u>				
	<u>Manufactured by "Union" or similar approved</u>				
1	100 x 75mm Medium duty brass butt hinge	No	14		
2	100 x 75mm Two ball bearing butt hinge (Code 8352-100 SB)	No	3		
3	50 x 25mm LD polished barrel bolt	No	5		
	<u>CATCHES, CABIN HOOKS, ETC.</u>				
	<u>Manufactured by "Dorma" or similar approved</u>				
4	"DHC-SS-030-A" stainless steel hat and coat hook without rubber buffer	No	5		
	<u>Manufactured by "Miles Nelson" or similar approved:</u>				
5	150mm "276SC10150BP" cabin hook solid chrome	No	2		
	Carried to Collection				
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LOCKS

Manufactured by "Dorma" or similar approved

6	"D036S Europrofile" single cylinder sash lock	No	2
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Manufactured by "Union" or similar approved

7	47mm "MG47" Padlock	No	1
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8	"CZ80941CH" WC indicator bolt	No	5
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HANDLES

Manufactured by "Dorma" or similar approved

9	"CB30" Lever handle on rectangular Euro cylinder back plate 61cm centres.	No	4
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PHOTOLUMINESCENT SIGNS

SUPPLEMENTARY PREAMBLES

Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames

Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed

Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender

A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer

Wall mounted photoluminescent statutory signs

10	180 x 180mm Female Sign	No	1
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11	180 x 180mm Male Sign	No	1
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Carried to Collection

Section No. 3
Ablution Block
Bill No. 8
Ironmongery
ECD PROGRAMMES

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BATHROOM ACCESSORIES

Manufactured by "Franke" or similar approved

12	"Halcast No. 366" Chromium plated toilet roll holder, plugged and screwed to wall with stainless steel screws	No	6
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Manufactured by "She Bin" or similar approved

13	Feminine hygiene pedal bins	No	6
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Manufactured by "Buchel" or similar approved

14	"B-2111" Surface mounted soap dispenser, plugged	No	6
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Manufactured by "Jassen Dakile" or similar approved

15	"L12603.3801-02" Hinged arm supports	No	2
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16	"L12806.0000-00" Wall mounting sets	No	2
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PUSH PLATES AND KICK PLATES

1.2mm Thick anodised aluminium plates countersunk screwed along edges at not exceeding 200mm centres

17	150 x 900mm Kick plate	No	1
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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3: ABLUTION BLOCK</u>				
	<u>BILL NO. 9</u>				
	<u>METALWORK</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>GALVANISED MILD STEEL GATES, SCREENS, ETC.</u>				
	<u>Welded gate and frame</u>				
1	Single gate 850 x 2250mm high of 20mm steel tubing and fitted with a pair of suitable hinges welded to post and with ears for padlock	No	1		
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
	<u>1,2mm Rebated frames suitable for one brick walls</u>				
2	Frame for door 813 x 2032mm high	No	2		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Purpose made steel windows with 8mm burglar bars to opening sashes</u>				
3	Window (W01) overall size 889 x 457mm high	No	4		
4	Window (W02) overall size 533 x 654mm high	No	5		
	Carried Forward to Summary of Section No. 3				
	Section No. 3 Ablution Block Bill No. 9 Metalwork ECD PROGRAMMES			R	

Section No. 3
Ablution Block
Bill No. 10
Plastering
ECD PROGRAMMES

7	<p><u>SPECIALISED PLASTER TYPE WALL COATINGS</u></p> <p><u>15mm Thick impermeable plaster mixed with silicite sealing agent applied in strict accordance with manufacturer's specifications, on brickwork</u></p> <p>On walls</p>	m2	102		
	<p>Section No. 3 Ablution Block Bill No. 10 Plastering ECD PROGRAMMES</p>	Carried to Collection		R	

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3: ABLUTION BLOCK</u>				
	<u>BILL NO. 11</u>				
	<u>TILING</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>WALL TILING</u>				
	<u>200 x 200 x 5mm White glazed ceramic tiles fixed with an approved adhesive to plaster (plaster elsewhere)</u>				
1	On walls in isolated panels, splashbacks, etc	m2	4		
	Carried Forward to Summary of Section No. 3				
	Section No. 3				
	Ablution Block				
	Bill No. 11				
	Tiling				
	ECD PROGRAMMES				
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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3: ABLUTION BLOCK</u>				
	<u>BILL NO. 12</u>				
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>RAINWATER GOODS</u>				
	<u>uPVC gutters and rainwater pipes</u>				
1	100 x 125mm Ogee eaves gutters	m	16		
2	Extra over gutter for stopped end	No	4		
3	Extra over gutter for outlet for 75 x 100mm pipe	No	2		
4	75 x 100mm Diameter rainwater pipes	m	5		
5	Extra over rainwater pipe for bend	No	2		
6	Extra over rainwater pipe for shoe	No	2		
7	Extra over rainwater pipe for swan-neck	No	2		
	Carried to Collection				R
	Section No. 3 Ablution Block Bill No. 12 Plumbing and Drainage (Provisional) ECD PROGRAMMES				

SANITARY FITTINGS

"Atlas Plastics" or similar approved

8	"Christy" wash hand basin with splashback (code: 383AP) polyethylene wash hand basin size 570 X 395mm (colour: granite) fixed to wall with and including cast iron brackets	No	6
9	"VIP 200" low level floor mounted WC pedestal (code: 222AP) complete with flap and incorporated seat	No	6

WASTE UNIONS ETC

"Cobra Watertech" or similar approved

10	32mm Basin waste union (code: 303) including plug and chain	No	6
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TRAPS, ETC.

"Marley" or similar approved

11	50mm PVC trap (code: ETPA10)	No	6
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TAPS, VALVES, ETC

"Cobra Watertech" or similar approved

12	15mm 111-15 Pillar taps fitted with restriction washer, one tap hole stopper	No	5
13	15mm 111-041 Medical elbow action pillar tap with flanged backnut fitted with restriction washer and one tap hole stopper	No	1
14	15mm 1003/125 Brass fullway wheelhead gate valve	No	6

"Plumpride" or similar approved

15	15mm Plastic bib tap	No	1
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Carried to Collection

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Section No. 3
Ablution Block
Bill No. 12
Plumbing and Drainage (Provisional)
ECD PROGRAMMES

<u>VENT PIPES, ETC</u>					
<u>"SWAN plastics" or similar approved black PVC UV stabilized vent pipes</u>					
16	110mm Vent pipe with and including holderbats screwed to walls	m	23		
<u>Extra over black PVC UV stabilized vent pipe for fittings</u>					
17	110mm Sockets to be cut off and used to fix shade cloth over vent pipe (elsewhere measured).	No	6		
18	110mm PVC single socket cast into slab for 110mm vent pipe (elsewhere measured)	No	6		
19	110mm pipe x 130mm Long welded to socket to form hole through slab.	No	6		
20	55% Black shade cloth to top of vent pipe (elsewhere measured)	No	6		
<u>Sundries</u>					
21	Provide all necessary apparatus, water, etc, for and test the whole of the Sanitary Plumbing to the satisfaction of the Architect and Local Authority and replace any defective work free of charge and leave perfect (PIT)	No	1		
<u>SANITARY PLUMBING</u>					
<u>Class 34 uPVC pipes</u>					
22	50mm Pipes	m	22		
<u>Extra over uPVC pipes for</u>					
23	50mm Access bend	No	6		
24	50mm Bend	No	16		
25	50mm Junction	No	6		
Carried to Collection					
Section No. 3 Ablution Block Bill No. 12 Plumbing and Drainage (Provisional) ECD PROGRAMMES				R	

WATER SUPPLIES

Class II copper pipes

26	15mm Pipes	m	6
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27	22mm Pipes	m	20
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Extra over class II copper pipes for solvent welded fittings

28	15mm fittings	No	13
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29	22mm fittings	No	8
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Carried to Collection

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Section No. 3
Ablution Block
Bill No. 12
Plumbing and Drainage (Provisional)
ECD PROGRAMMES

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3: ABLUTION BLOCK</u>				
	<u>BILL NO. 13</u>				
	<u>GLAZING</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>GLAZING TO STEEL WITH PUTTY</u>				
	<u>4mm Sandblasted glass</u>				
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	3		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
	<u>6mm Silvered float glass copper backed mirror with polished edges, holed for and fixed with chromium plated dome capped screws with rubber buffers to plugs in brickwork or concrete</u>				
2	Mirror 300 x 600mm high with dome capped screws	No	6		
	Carried Forward to Summary of Section No. 3				R
	Section No. 3 Ablution Block Bill No. 13 Glazing ECD PROGRAMMES				

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3: ABLUTION BLOCK</u>				
	<u>BILL NO. 14</u>				
	<u>PAINTWORK</u>				
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation				
	<u>PAINTWORK ETC TO NEW WORK</u>				
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
1	Walls	m2	115		
	<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
2	Cills	m	6		
3	Fascias and barge boards, including priming metal jointing strips	m2	11		
	Carried to Collection				R
	Section No. 3 Ablution Block Bill No. 14 Paintwork ECD PROGRAMMES				

ON WOOD SURFACES

Two coats oil wood primer

4	Backs of frames, linings, etc not exceeding 300mm wide	m	22
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One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	21
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6	On roof timbers at eaves and verges	m2	10
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Section No. 3
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Bill No. 14
Paintwork
ECD PROGRAMMES

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Section No. 3

Ablution Block

Bill No. 14

Paintwork

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Ablution Block
Bill No. 14
Paintwork
ECD PROGRAMMES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 1</u>			
	<u>BULK EARTHWORKS (PROVISIONAL)</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<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	m2	440	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	440	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	To form platform	m3	240	
	<u>Extra over bulk excavation in earth for excavation in</u>			
4	Soft Rock	m3	24	
5	Hard rock	m3	12	
	<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	222	
	Carried to Collection		R	
	Section No. 4 External Works Bill No. 1 Bulkearthworks (Provisional) ECD PROGRAMMES			

Section No. 4
External Works
Bill No. 1
Bulkearthworks (Provisional)
ECD PROGRAMMES

Section No. 4

External Works

Bill No. 1

Bulkearthworks (Provisional)

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External Works

Bill No. 1

Bulkearthworks (Provisional)

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 2</u>			
	<u>COVERED PLAY AREA</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under pavings	m3	31	
	<u>Extra over bulk excavation in earth for excavation in</u>			
2	Soft rock	m3	2	
3	Hard rock	m3	2	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	30	
	<u>Keeping excavations free of water</u>			
5	Keeping excavations free of all water other than subterranean water		Item	
	<u>Earth filling supplied by the contractor under pavings etc</u>			
6	Over site of G7 materials in accordance with SABS 1200 DM compacted to 97% AASHTO density	m3	14	
	Carried to Collection			R
	Section No. 4 External Works Bill No. 2 Covered Play Area ECD PROGRAMMES			

Section No. 4
External Works
Bill No. 2
Covered Play Area
ECD PROGRAMMES

PRECAST CONCRETE PAVING BLOCKS

Paving is to be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's Specification

60mm Thick precast concrete interlocking grey block paving in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor

11	Paving to play areas etc to falls	m2	124
<u>Sundries</u>			
12	Apply Bromosoil or equal herbicide to river sand bedding under paving in strict accordance with the manufacturer's instruction	m2	124
13	Design, supply and install the following jungle gym ad sandpit fixed to ground and finished complete with all necessary structural elements, fixing details, features, etc complete in accordance with architect drawing (10-071-A-D-A190W) and specification	No	1

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Section No. 4
External Works
Bill No. 2
Covered Play Area
ECD PROGRAMMES

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External Works

Bill No. 2

Covered Play Area

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ECD PROGRAMMES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 3</u>			
	<u>CONCRETE WALKWAYS</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Earthworks (Provisional)</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	166	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	166	
3	Excavations in soft material not exceeding 2m deep to reduce levels to final levels under floors, etc	m3	17	
4	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	17	
5	Compaction of ground surfaces under floors etc including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compaction to 98% Mod AASHTO density	m2	166	
6	Apply "Weedmaster Turfmaster" weedkiller (at a rate of 40-45 ml to 5 litre of water per 50m2) undre pavings, etc	m2	166	
	Carried to Collection			
	Section No. 4 External Works Bill No. 3 Concrete walkways ECD PROGRAMMES		R	

CONCRETE, FORMWORK AND REINFORCEMENT

Concrete, Formwork and Reinforcement 20MPa/19mm concrete

7	Reinforced concrete in walkways cast in panels between continuous joints, etc	m3	25
8	Wood float finish to top of concrete surface beds, slabs, etc	m2	166

Formwork

9	Rough formwork to edges, risers, ends and reveals not exceeding 300mm high or wide	m	278
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Expansion joints with bitumen impregnated softboard between vertical concrete surfaces

10	12mm Joints not exceeding 300mm high	m	118
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Reinforcement (Provisional)

11	Type 100 fabric reinforcement in concrete surface beds, slabs, etc	m2	166
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Waterproofing

12	Rake out 10mm joint filler to a depth of 10mm and fill in with an approved polysulphide liquid polymer sealant and polythelene sealant cord	m	118
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COVERED WALKWAYS

13	Supply and install covered walkways as specified by the engineer	m2	29
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Carried to Collection

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Section No. 4
External Works
Bill No. 3
Concrete walkways
ECD PROGRAMMES

Section No. 4

External Works

Bill No. 3

Concrete walkways

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External Works
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Concrete walkways
ECD PROGRAMMES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 4</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>STORMWATER CHANNELS</u>			
	<u>In situ cast channels in 20Mpa/19mm concrete</u>			
1	1000 x 130mm Channel with 450 x 50mm deep segmental channel	m	12	
2	Extra for angles, intersections, ends, dressing into sides of catchpits, etc	No	12	
	<u>SOAKAWAY</u>			
	<u>NOTE:</u> Base of soakaway to be level throughout			
3	Excavation in earth not exceeding 1m deep for soakaway trenches	m3	42	
4	19mm Crushed stone encasing to pipes	m3	29	
5	Backfilling and compaction to 98% Mod. AASHTO density	m3	13	
6	U14 Bidum geotextile or similar approved filter blanket wrapped around stone encasing with side and end laps including stitching	m2	140	
7	110mm Slotted HDPe pipes laid in stone encasing	m	7	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 External Works Bill No. 4 Plumbing and Drainage ECD PROGRAMMES			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 5</u>			
	<u>FENCING, GATES, ETC</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>THE FOLLOWING WORK SHALL BE UNDERTAKEN BY REPUTABLE CONTRACTORS WHO ARE TO BE APPROVED BY THE PRINCIPAL AGENT PRIOR TO COMMENCING ANY WORK ON SITE</u>			
	<u>Security fencing, gates, etc., including specified finish applied on metal stays, posts, framing, bolts, etc., complete</u>			
1	1,5m High "Class C" anti-climb high security fence of mild steel mesh wrap including posts including end caps, base plates and bolts, stays and foundations complete. The mesh panels formed of small rectangular apertures, all in accordance to the "School Infrastructure Safety and Security Guidelines" and as per the manufacturer's specification	m	72	
2	1,5m High "Class C" anti-climb high security fence of mild steel mesh wrap including posts including end caps, base plates and bolts, stays and foundations complete. The mesh panels formed of small rectangular apertures, all in accordance to the "School Infrastructure Safety and Security Guidelines" and as per the manufacturer's specification	m	85	
	Carried to Collection			R
	Section No. 4 External Works Bill No. 5 Fencing, gates, etc ECD PROGRAMMES			

Gates

3	Welded security gate 1m wide x 1.8m high, formed of 48mm external diameter x 2.8mm wall thickness hot dipped galvanised mild steel frame, with uprights being extended to 500mm on top for fixing razor wire on top of gate (elsewhere), and one diagonal rail, covered with 50 x 50 x 2,5mm hot dipped galvanised welded steel wire mesh, tied to frame with 2,5mm binding wire on 500mm centres and fitted with three pintle hinges formed with 10mm diameter rod, 10mm diameter x 300mm girth rails welded on, two 6mm thick steel plates for padlock	No	1
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4	Welded vehicle double gate 4.2m wide x 1.8m high, each leaf formed of 48mm external diameter x 2.8mm wall thickness hot dipped galvanised mild steel frame, with uprights being extended to 500mm on top for fixing razor wire on top of gate (elsewhere), and one diagonal rail, covered with 50 x 50 x 2,5mm hot dipped galvanised welded steel wire mesh, tied to frame with 2,5mm binding wire on 500mm centres and each leaf fitted with two pintle hinges formed with 10mm diameter rod, 10mm diameter x 300mm girth rails welded on, 16mm diameter fall bar, two 6mm thick steel plates for padlocks and 300 x 300 x 150mm deep mass concrete 25MPa pad, with two 20mm galvanised mild steel pipes 100mm long for and including an approved barrel bolts, cast flush into top of concrete pad, including backfilling and ramming	No	1
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Sundries

5	Allow for all necessary clearing of fence line including grubbing up and removal of scrub bush and trees not exceeding 200mm girth	m	143
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6	"Union 3630-50" Padlock	No	2
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Carried to Collection

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Section No. 4
External Works
Bill No. 5
Fencing, gates, etc
ECD PROGRAMMES

Section No. 4

External Works

Bill No. 5

Fencing, gates, etc

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External Works
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Fencing, gates, etc
ECD PROGRAMMES

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4: EXTERNAL WORKS</u>			
	<u>BILL NO. 6</u>			
	<u>WATER TANKS AND PLINTHS (ALL TRADES)</u>			
	NOTE: The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Model Preambles for Trade 2008, Specifications, Drawings and all other relevant documentation			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under floors	m3	1	
2	Trenches	m3	8	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1	
4	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	4	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	58	
	Carried to Collection			R
	Section No. 4 External Works Bill No. 6 Water Tanks ECD PROGRAMMES			

	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	12		
	<u>Coarse river sand filling supplied by the contractor</u>				
9	Under floors etc	m3	3		
	<u>Hardcore filling</u>				
10	Under floors etc	m3	4		
	<u>Compaction of surfaces</u>				
11	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	8		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density" test	No	3		
	<u>Soil insecticide</u>				
13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	8		
14	To bottoms and sides of trenches etc	m2	73		
Carried to Collection					R
Section No. 4 External Works Bill No. 6 Water Tanks ECD PROGRAMMES					

CONCRETE, FORMWORK AND REINFORCEMENT

Reinforced Concrete Cast Against Excavated Surfaces

25MPa/19mm concrete

15	Strip footings	m3	4
16	Surface beds cast on waterproofing	m3	1

Test Blocks

17	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent		Item
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Concrete Sundries

Finishing top surface of concrete smooth with a power float

18	Surface beds, slabs, etc	m2	8
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Rough Formwork (Degree of Accuracy II)

NOTE: Unless otherwise stated herein, all items in this section shall be deemed to fall into Work Group No. 111 for Haylett formula purposes

Rough formwork to sides

19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19
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Reinforcement (Provisional)

High tensile steel reinforcement to structural concrete work

20	Various diameter bars	t	0.10
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External Works
Bill No. 6
Water Tanks
ECD PROGRAMMES

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Face Brickwork

Face brickwork to be "Corobrik®" Firelight Satin
FBX of 20-30MPa nominal compressive strength in
Class II mortar with recessed horizontal and
recessed vertical joints

25	Extra over brickwork for face brickwork	m2	3
26	Extra over brickwork for face brickwork in foundations (Provisional)	m2	2

WATERPROOFING

Damp-Proofing of Walls and Floors

One layer of 250 micron "Consol Plastics Gunplas
USB Green" waterproof sheeting sealed at laps with
"Gunplas Pressure Sensitive Tape"

27	Under surface beds	m2	15
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PLUMBING AND DRAINAGE (PROVISIONAL)

Taps, Valves, etc

"Cobra Watertech"

28	15mm, 111CP "Star" pillartap	No	1
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Tanks etc

"Everite" fibre-cement water tanks etc

29	5000L Polyethylene water tank complete with lid as Pennels and hoisting approximately 700mm above ground level	No	1
30	Outlet union for 22mm copper pipe including hole through tank	No	3

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External Works

ECD PROGRAMMES

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5: PROVISIONAL SUMS</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS</u>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p>All provisional sums cover supply of material and equipment and installation by Nominated or Selected Subcontractor. Provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary</p>			
<u>PROVISIONAL AMOUNTS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
<u>ELECTRICAL WORK</u>			
1	Provide the sum R200 000.00 (Two Hundred Thousand) for supply and installation of electrical work complete	Item	200 000.00
2	Add for profit upon above if required	Item	
3	Provide for general attendance on specialist as described	Item	
Carried to Collection			R
Section No. 5 Provisional Sums Bill No. 1 Provisional Sums ECD PROGRAMMES			

LIGHTNING PROTECTION

4 Provide the sum of R50 000.00 (Fifty Thousand) for supply and installation of lightning protection

Item

50 000.00

5 Add for profit upon above if required

Item

6 Provide for general attendance on specialist as described

Item

COLLECTION OF EXISTING MOBILE CLASSROOMS

7 Provide the sum of R50 000.00 (Fifty Thousand) for dismantling and collection of onsite mobile classrooms

Item

8 Add for profit upon above if required

Item

9 Provide for general attendance on specialist as described

Item

BUDGETARY ALLOWANCES

Community Liaison Officer

10 Allow a budgetary amount of R 80 000.00 (Eighty Thousand Rand) nett for a Community Liaison Officer's salary package for the duration of the project and the amount to be omitted in part or whole as instructed by Principal Agent

Item

80 000.00

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Bill No. 1
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Section No. 5
Provisional Sums
Bill No. 1
Provisional Sums

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