

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 1</u></b></p>			
<p><b><u>BILL NO. 1 PRELIMINARIES</u></b></p>			
<p><b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b></p>			
<p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p>			
<p><b><u>PRELIMINARIES</u></b></p>			
<p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p>			
<p><b><u>PRICING OF PRELIMINARIES</u></b></p>			
<p>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(F), Value Related(V) or Time Related(T) and the respective amounts entered in the spaces provided under each item</p>			
<p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p>			
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**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

**A1 DEFINITIONS AND INTERPRETATION**

Clause 1.0 Clause

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

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

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

"**CONSTRUCTION GUARANTEE**" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer's** construction guaratee form as selected in the **schedule**

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

"**CONSTRUCTION PERIOD**" means the period commencing on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of "**Corrupt Practice**" is added

"**CORRUPT PRACTICE**" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

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**"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 our after tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

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

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

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

**"PRINCIPAL AGENT"** means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**.

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

**"SECURITY"** means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss.

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

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Clause 1.6.4 is amended by replacing it with the following:

No clause

**OBJECTIVE AND PREPARATION**

**1 A2 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**2 A3 DOCUMENTS**

Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

The **contractor** shall supply and keep a copy of the **JBCC Series 2000 Principal Building Agreement and Preliminaries** applicable to this contract on the site, to which the **employer, principal agent and agents** shall have access at all times

Clause 3.10 is amended by replacing the second reference to "**principal agent**" with the word "**employer**"

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<p><b>3 A4 DESIGN RESPONSIBILITY</b></p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following: No clause</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>4 A5 EMPLOYER'S AGENTS</b></p> <p>Clause 5.0 (See notes to Tenders)</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>5 A6 SITE REPRESENTATIVE</b></p> <p>Clause 6.0</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>6 A7 COMPLIANCE WITH REGULATIONS</b></p> <p>Clause 7.0</p> <p>Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor</p> <p>See also clause C10 of Section C - Specific Preliminaries</p> <p>F: _____ V: _____ T: _____</p>	Item		
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7	<p><b>A8 WORKS RISK</b></p> <p>Clause 8.0</p> <p>F:_____V:_____T:_____</p>	Item	
8	<p><b>A9 INDEMNITIES</b></p> <p>Clause 9.0</p> <p>F:_____V:_____T:_____</p>	Item	
9	<p><b>A10 WORKS INSURANCES</b></p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p><b>10.5 Damage to the Works</b></p> <p>(a) Without in any way limiting the <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall bear the full risk of damage to and/or destruction of the <b>works</b> by whatever cause during construction of the <b>works</b> and hereby indemnifies and holds harmless the <b>employer</b> against any such damage. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection and security of the <b>works</b> as the <b>contractor</b> may deem necessary</p> <p>(b) The <b>contractor</b> shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b></p> <p>(c) The <b>employer</b> shall carry the risk of damage to or destruction of the <b>works</b> and material paid for by the <b>employer</b> that is the result of the excepted risks as set out in 10.6</p> <p style="text-align: right;"><b>Carried to Collection</b></p>		R
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(d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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

(a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

(b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

(c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

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- (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 and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

**10.7 High risk insurance**

In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

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**10.7.1 Damage to the works**

The **contractor** shall, from the commencement **date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs

**10.7.2 Injury to persons or loss of or damage to property**

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

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**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

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

Item

**10 A11 LIABILITY INSURANCES**

Clause 11.0

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

Item

**11 A12 EFFECTING INSURANCES**

Clause 12.0

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

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**12 A13.0 No clause**

N/A

**13 A14 SECURITY**

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

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14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **contractor** to the **employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

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

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

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

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

**14.3.1** The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty one (21) **calendar days** from **commencement date**

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

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

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

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

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

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

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

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

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

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

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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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**EXECUTION**

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

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

**15 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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**16 A16 ACCESS TO THE WORKS**

Clause 16.0

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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<p><b>17 A17 CONTRACT INSTRUCTIONS</b></p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of <b>nominated</b> and <b>selected subcontractors</b>'</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>18 A18 SETTING OUT OF THE WORKS</b></p> <p>Clause 18.0</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>19 A19 ASSIGNMENT</b></p> <p>Clause 19.0</p> <p>F: _____ V: _____ T: _____</p>	Item		
<p><b>20 A20 NOMINATED SUB-CONTRACTORS</b></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>F: _____ V: _____ T: _____</p>	Item		
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<p><b>21</b></p>	<p><b>A21 SELECTED SUBCONTRACTORS</b></p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No Clause</p> <p>F: _____ V: _____ T: _____</p>	<p>N/A</p>		
<p><b>22</b></p>	<p><b>A22 EMPLOYER'S DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
<p><b>23</b></p>	<p><b>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Clause 23.0</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
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<p><b>24</b></p>	<p><b>A24 PRACTICAL COMPLETION</b></p> <p>Clause 24.0</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
<p><b>25</b></p>	<p><b>A25 WORK'S COMPLETION</b></p> <p>Clause 25.0</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
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<p><b>26</b></p>	<p><b>A26 FINAL COMPLETION</b></p> <p>Clause 26.0</p> <p>F:_____V:_____T:_____</p>	<p>Item</p>		
<p><b>27</b></p>	<p><b>A27 LATENT DEFECTS LIABILITY PERIOD</b></p> <p>Clause 27.0</p> <p>F:_____V:_____T:_____</p>	<p>Item</p>		
<p><b>28</b></p>	<p><b>A28 SECTIONAL COMPLETION</b></p> <p>Clause 28.0</p> <p>F:_____V:_____T:_____</p>	<p>Item</p>		
<p><b>29</b></p>	<p><b>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</b></p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>F:_____V:_____T:_____</p>	<p>Item</p>		
<p><b>30</b></p>	<p><b>A30 PENALTY FOR NON-COMPLETION</b></p> <p>Clause 30.0</p> <p>F:_____V:_____T:_____</p>	<p>Item</p>		
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**PAYMENT**

**31 A31 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

Item

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

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**

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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:

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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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**33 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**"

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

Item

**34 A33 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

Item

**35 A34 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

Clause 34.1 is amended by removing "#" next to 34.1

Clause 34.2 is amended by removing "#" next to 34.2

Clause 34.8 is amended by deleting the words "where **security** as a fixed **guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"

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"

F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

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36 A35 PAYMENT TO OTHER PARTIES  
 Clause 35.0  
 F:\_\_\_\_\_ V:\_\_\_\_\_ T:\_\_\_\_\_

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**CANCELLATION**

**A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT**

Clause 36.0

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

Clause 36.0

37 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

38 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of south Africa

39 36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

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

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

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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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**42 A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

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

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

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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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**43 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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**44 A39 CANCELLATION - CESSATION OF THE WORKS**

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) **working days** of completion of such a report"

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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45 **DISPUTE**

46 **A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing “one (1) year” with “three (3) years”

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing “(10)” with “(15)” and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**SUBSTITUTE PROVISIONS**

47 **A41 STATE CLAUSES**

Clause 41.0

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**CONTRACT VARIABLES**

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**THE SCHEDULE (DPW04EC)**

**48 A42 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2 refer to Notes to Tenderers (EC) for variables pertaining to this contract

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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**SECTION B: JBCC PRELIMINARIES**

**DEFINITIONS AND INTERPRETATION**

**49** *Definitions and interpretation*

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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**DOCUMENTS**

**50** *Checking of documents*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**51** *Provisional bills of quantities*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

N/A

**52** *Availability of construction documentation*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**53** *Interests of agents*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**54** *Priced documents*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**55** *Tender submission*

Clause 2.6 is amended by replacing “JBCC Form of Tender” with “Form of Offer and Acceptance (see Returnable Schedules)”

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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<b><u>THE SITE</u></b>			
<b>56</b>	<b><i>Defined works area</i></b> F: _____ V: _____ T: _____	Item	
<b>57</b>	<b><i>Geotechnical investigation</i></b> F: _____ V: _____ T: _____	N/A	
<b>58</b>	<b><i>Inspection of the site</i></b>  Tenderers shall complete the Site Inspection Certificate (as per Returnable Schedules) included in the tender documents and return the same with the tender submission.  F: _____ V: _____ T: _____	Item	
<b>59</b>	<b><i>Existing premises occupied</i></b> F: _____ V: _____ T: _____	Item	
<b>60</b>	<b><i>Previous work - dimensional accuracy</i></b> F: _____ V: _____ T: _____	N/A	
<b>61</b>	<b><i>Previous work - defects</i></b> F: _____ V: _____ T: _____	N/A	
<b>62</b>	<b><i>Services - known</i></b> F: _____ V: _____ T: _____	Item	
<b>63</b>	<b><i>Services - unknown</i></b> F: _____ V: _____ T: _____	Item	
<b>64</b>	<b><i>Protection of trees</i></b> F: _____ V: _____ T: _____	N/A	
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65	<i>Articles of value</i>		
	F: _____ V: _____ T: _____	Item	
66	<i>Inspection of adjoining properties</i>		
	F: _____ V: _____ T: _____	Item	
<b><u>MANAGEMENT OF CONTRACT</u></b>			
67	<i>Management of the works</i>		
	F: _____ V: _____ T: _____	Item	
68	<i>Programme for the works</i>		
	F: _____ V: _____ T: _____	Item	
69	<i>15000 Progress meetings</i>		
	F: _____ V: _____ T: _____	Item	
70	<i>Technical meetings</i>		
	F: _____ V: _____ T: _____	Item	
71	<i>Labour and plant records</i>		
	F: _____ V: _____ T: _____	Item	
<b><u>SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></b>			
72	<i>Samples of materials</i>		
	F: _____ V: _____ T: _____	Item	
73	<i>Workmanship samples</i>		
	F: _____ V: _____ T: _____	Item	
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74	<i>Shop drawings</i>			
	F: _____ V: _____ T: _____	N/A		
75	<i>Shop drawings</i>			
	F: _____ V: _____ T: _____	N/A		
<b><u>TEMPORARY WORKS AND PLANT</u></b>				
76	<i>Deposits and fees</i>			
	F: _____ V: _____ T: _____	Item		
77	<i>Enclosure of the works</i>			
	F: _____ V: _____ T: _____	N/A		
78	<i>Advertising</i>			
	F: _____ V: _____ T: _____	N/A		
79	<i>Plant, equipment, sheds and offices</i>			
	F: _____ V: _____ T: _____	Item		
80	<i>Main notice board</i>			
	F: _____ V: _____ T: _____	Item		
81	<i>Subcontractors' notice board</i>			
	F: _____ V: _____ T: _____	N/A		
<b><u>TEMPORARY SERVICES</u></b>				
82	<i>Location</i>			
	F: _____ V: _____ T: _____	Item		
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83	<i>Water</i>			
	F: _____ V: _____ T: _____	Item		
84	<i>Electricity</i>			
	F: _____ V: _____ T: _____	Item		
85	<i>Telecommunication facilities</i>			
	F: _____ V: _____ T: _____	Item		
86	<i>Ablution facilities</i>			
	F: _____ V: _____ T: _____	Item		
<b><u>PRIME COST AMOUNTS</u></b>				
87	<i>Responsibility for prime cost amounts</i>			
	F: _____ V: _____ T: _____	N/A		
<b><u>ATTENDANCE ON N/S SUBCONTRACTORS</u></b>				
88	<i>General attendance</i>			
	The schedule rates providing for attendance on <b>nominated subcontractors</b> and other <b>contractors</b> , will be adjusted only if the scope of the work has changed			
	F: _____ V: _____ T: _____	Item		
89	<i>Special attendance</i>			
	F: _____ V: _____ T: _____	N/A		
90	<i>Commissioning - fuel, water and electricity</i>			
	F: _____ V: _____ T: _____	Item		
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**FINANCIAL ASPECTS**

91 *Statutory taxes, duties and levies*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

92 *Payment for preliminaries*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

93 *Adjustment of preliminaries*

Clause B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) **working days** of taking possession of the **site**" with "in this priced **bills of quantities / lump sum document** submitted with his tender offer"

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

94 *Payment certificate cash flow*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**GENERAL**

95 *Protection of the works*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

96 *Protection / isolation of existing / sectionally occupied works*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

97 *Security of the works*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

98 *Notice before covering work*

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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99	<i>Disturbance</i>	F: _____ V: _____ T: _____	Item		
100100	<i>Environmental disturbance</i>	F: _____ V: _____ T: _____	Item		
101101	<i>Works cleaning and clearing</i>	F: _____ V: _____ T: _____	Item		
102102	<i>Vermin</i>	F: _____ V: _____ T: _____	Item		
103103	<i>Overhand work</i>	F: _____ V: _____ T: _____	N/A		
104104	<i>Instruction manuals and guarantees</i>	F: _____ V: _____ T: _____	Item		
105105	<i>As built information</i>	F: _____ V: _____ T: _____	Item		
106106	<i>Tenant installations</i>	F: _____ V: _____ T: _____	N/A		
<b><u>SCHEDULE OF VARIABLES</u></b>					
107107	<i>Pre-tender information</i>	F: _____ V: _____ T: _____	Item		
<b>Carried to Collection</b>				R	
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This schedule contains all variables referred to in this document and is divided into pretender and post tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as “not applicable” or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted.

Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [ ] brackets

**12.1 PRE TENDER INFORMATION**

**12.1.1 Provisional Bills of Quantities**

[2.2] The quantities are provisional

YES/NO

**12.1.2 Availability of construction documentation**

[2.3] *Construction of documentation is complete*

YES/NO

**12.1.3 Interest of agents**

**41.1.2**

**Principal Agent:**

Ikamva Architects CC

Street address:  
3 Voorwaarts Street  
KOKSTAD  
Code: 4700

Tel: 039 - 727 5502  
Fax: 039 - 727 4220  
E-mail: kokstad@ikamva-architects.co.za

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**41.1.2**

**Architect:**

Ikamva Architects CC

Street address:  
3 Voorwaarts Street  
KOKSTAD  
Code: 4700

Tel: 039 - 727 5502  
Fax: 039 - 727 4220  
E-mail: kokstad@ikamva-architects.co.za

**41.1.4**

**Agents service: Quantity Surveyor**

R & G Group of Consultants

Street address:  
7 Sissons Street, ECDC Complex, Fortgale, Mthatha  
Code: 5099

Tel: 047 - 5311106  
Fax: 047 - 5314243  
E-mail: ralph@rgconsultants.co.za

**41.1.5**

**Agents service: Structural & Civil Engineer**

ZNM Consulting Civil & Structural Engineers

Street address:  
8A Bonzabay Road  
Beacon Bay  
East London  
Code: 5241

Tel: 087 - 350 4035  
Fax: 086 - 608 3511  
E-mail: info@znmeng.co.za

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**41.1.5**

**Agents service: Electrical/Mechanical Engineer**

Evans Consulting Engineers CC

Street address:  
17 Surrey Road  
Vincent  
East London  
Code: 5247

Tel: 043 - 721 3692  
Fax: 043 - 721 1553  
E-mail: darryl@evansconsulting.co.za

**12.1.4 Defined works area**

[3.1] Details: N/A

**12.1.5 Geotechnical investigation**

[3.2] Details: (Yes)

**12.1.6 Existing premises occupied**

[3.4] Specific requirements: Yes

**12.1.7 Previous work - dimensional accuracy**

[3.5] Details: N/A

**12.1.8 Previous work - defects**

[3.6] Details:N/A

**12.1.9 Services - known**

[3.7] Details:(Yes) *Electrical Power Line.*

**12.1.10 Protection of trees**

[3.9] Specific requirements:(N/A)

**12.1.11 Inspection of adjoining properties**

[3.11] Specific requirements:(N/A)

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**12.1.12 Enclosure of the works**

[6.2] Specific requirements:(N/A)

**12.1.13 Offices**

[6.4.3] Specific requirements:

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

**12.1.14 Main notice board ( As per EPWP specification)**

[6.5] Specific requirements:

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.

**12.1.15 Subcontractors' notice board**

[6.6] Specific requirements:

YES/NO

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**12.1.16 Water**

- [7.2] Option A (by contractor) YES/NO
- Option B (by employer - free of charge) YES/NO
- Option C (by employer - metered) YES/NO

**12.1.17 Electricity**

- [7.3] Option A (by contractor) YES/NO
- Option B (by employer - free of charge) YES/NO
- Option C (by employer - metered) YES/NO

**12.1.18 Telecommunications**

- [7.4] Telephone YES/NO
- Facsimile YES/NO
- E-mail YES/NO

**12.1.19 Ablution facilities**

- [7.5] Option A (by contractor) YES/NO
- Option B (by employer) YES/NO

**12.1.20 Protection of existing/sectionally occupied works**

- [11.2] Protection is required YES/NO

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**12.1.21 Special attendance**

[9.2] **Subcontractor** (1) details: N/A

**Subcontractor** (2) details: N/A

**Subcontractor** (3) details: N/A

**Subcontractor** (4) details: N/A

**12.1.22 Protection of works**

[11.1] Specific requirements:

**12.1.23 Disturbance**

[11.5] Specific requirements:

The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent

**12.1.24 Environmental disturbance**

[11.6] Specific requirements: N/A

**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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**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**

108 **C1 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

N/A

109 **C2 GENERAL PREAMBLES**

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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

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110 **C3 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities**, the tenderer’s attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

N/A

111 **C4 IMPORTED MATERIALS AND EQUIPMENT**

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 (DPW23EC) to be completed by tenderer)

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)

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112 Community Liason Office (Clause C10)

It is a requirement of this Contract that a Community Liaison officer (CLO) be appointed for the area represented by the Tender. The function of the CLO shall be to represent the local community in matters concerning the use of local labour on the works and to assist with and facilitate communication between the Contractor, the Engineer and the local communities. The period of appointment of the CLO shall be as stated in the Contract for Temporary Employment as a Community Liaison officer referred to below. It must be noted that the date of commencement of temporary employment of the CLO shall be no later than the date of commencement of the Contract. The identification of the approved CLO to be appointed by the Contractor under the Contract shall be resolved by the Contractor, the particular Ward Councillors in collaboration with the Local Communities.

It will be required, therefore, that the successful Tenderer (i.e. the Contractor) enter into a contract for the employment of the above-mentioned CLO, the parties to which will be the Contractor, the RDP/Development Forum and the CLO. To this end a specimen Form of Contract for the Temporary Employment as a Community Liaison Officer is included in this document; this Form of Contract sets out, inter alia, the agreement between the parties, the duties and conditions of employment of the CLO (including the rate of remuneration to be paid). As said contract will be between the Contractor and the CLO, all costs involved shall be borne by the Contractor and the tender shall be deemed to include for this.

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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

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

113 **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

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114	<p><b>C10.2 AWARENESS WORKSHOPS</b></p> <p>Selection and appointment of a competent Service Provider approved by the <b>principal agent</b>, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>F:_____ V:_____ T:_____</p>	Item		
115	<p><b>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</b></p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p> <p>F:_____ V:_____ T:_____</p>	Item		
116	<p><b>C10.4 ACCESS TO CONDOMS</b></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 <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p> <p>F:_____ V:_____ T:_____</p>	Item		
117	<p><b>C10.5 MONITORING</b></p> <p>Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the <b>construction period</b> and close out, all in accordance with the HIV/AIDS Specification</p> <p>F:_____ V:_____ T:_____</p>	Item		
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<p>118</p>	<p><b>C11 HEALTH AND SAFETY</b></p> <p>Compliance with Project Specific Occupational Healthy and Safety Specification attached to this document (Part 1 C3.2).</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
<p>119</p>	<p><b>C12 EXISTING PREMISES OCCUPIED</b></p> <p>The existing premises will be in use and occupied during the course of this contract.</p> <p>The Contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimize any nuisance from dusts, noise or other causes.</p> <p>F: _____ V: _____ T: _____</p>	<p>Item</p>		
<p>120</p>	<p><b>C13 INACCURATE AND DEFECTIVE WORK EXECUTED UNDER A PREVIOUS CONTRACT</b></p> <p>The Contractor shall, after taking possession of the Site and before commencing the work, check the existing levels, lines, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect work</p> <p>Should any inaccurate or defective work be found the Contractor shall immediately notify the Representative/Agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work</p> <p>F: _____ V: _____ T: _____</p>	<p>N/A</p>		
<p style="text-align: right;"><b>Carried to Collection</b></p>			<p>R</p>	
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**121 C14 HIGH RISK INSURANCE**

**C14.1 HIGH RISK AREA**

The execution of this Contract involves work in a geological area classified as a "High Risk Area" that is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

N/A

**122 C14.2 DAMAGE TO THE WORKS**

The Contractor shall, from the date of the letter of acceptance until date of the issue of the First Delivery Certificate, 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 in sub clause C14.1 above. The Contractor shall take such precautions and security measures and other steps for the protection and security of the Works as he may deem necessary

When so instructed 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

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**123 C14.3 INJURY TO PERSONS OR LOSS OF OR DAMAGE TO PROPERTIES**

The Contractors shall be liable for ad hereby indemnifies and holds harmless the Employer against any and all liability, loss, slaim or proceeding arising at any time during the Contract Period 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 in sub clause C14.1 above

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 contingious to the Siet, 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 in subclause C14.1 above, which occurred during the Contract Period

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Item

**124 C14.4 ADEQUATE INSURANCE**

It is the responsibility of the Contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in subclauses C14.2 and C14.3 above.

Without limiting his obligations in terms of the Contract, the Contractor shall, within 21 days of the Letter of Acceptance and before commencement of the Works, submit to the Employer proof of such insurance policy

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**125 C14.5 RECOVERY OF LOSSES OR DAMAGES**

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 sub clauses C14.2, C14.3 and C14.4. Such losses or damages may be recovered from the Contractor or by deducting the same from any amounts due under this Contractor 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

F: \_\_\_\_\_ V: \_\_\_\_\_ T: \_\_\_\_\_

Item

**SCHEDULE OF SUPPLEMENTARY INFORMATION**

NOTE:

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

**CLAUSE NO A24** - 9 months including public holidays and statutory builders holidays

The date for site handover :- TO BE ANNOUNCED

The contractual practical completion date is : 9 months after the date of site handover

**CLAUSE NO A1** - Clause A1 has been amended to read that construction period means the period commencing on the date on which possession of the site is given to the contractor

**CLAUSE NO A30** - Amount of penalty: **3,75cents per R100** of the contract sum excluding VAT per calender day.

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<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 1</u></b></p>			
<p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p>			
<p>NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill</p>			
<p>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density</p>			
<p>Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the contractor's method of operation.</p>			
<p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking.</p>			
<p><b>Carried to Collection</b></p>		R	
<p><b>Section No. 2 Bill No. 1 Earthworks U1604 - CABANE JSS - COMPLETION</b></p>			

NOTE : Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations.

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

the top of the column base is more than 1,5m below the commencing level of the excavations and

the column face is less than 500mm from the face of the measured excavations.

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

-.....

**EXCAVATION, ETC**

**Carried to Collection**

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<b><u>Excavation in earth not exceeding 2m deep for:</u></b>				
1	Trenches.	m3	210	
<b><u>Extra over all excavations for carting away:</u></b>				
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	210	
<b><u>Risk of collapse of excavations:</u></b>				
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	124	
<b><u>Keeping excavations free of water:</u></b>				
4	Keeping excavations free from mud and all water including subterranean sources.		Item	
<b><u>EARTH FILLING, ETC.</u></b>				
<b><u>Coarse river sand filling supplied by the contractor:</u></b>				
5	Under floors etc. (Provisional).	m3	8	
<b><u>Compaction of surfaces:</u></b>				
6	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	169	
<b><u>Prescribed density tests on filling:</u></b>				
7	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	3	
<b><u>SOIL POISONING</u></b>				
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<b>Section No. 2</b> <b>Bill No. 1</b> <b>Earthworks</b> <b>U1604 - CABANE JSS - COMPLETION</b>				

**Approved registered termite soil poisoning material in accordance with SABS 0124 - 1977 mixed with water and applied at a rate of not less than 5 litres of solution per square metre. The concentration of the solution shall be in strict accordance with the manufacturer's instructions and to the approval of the Representative/Agent.**

8	Under floors including any preparation, levelling, etc.	m2	169
9	To bottoms and sides of trenches etc	m2	43

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Item No	Quantity	Rate	Amount
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<p><b><u>BILL NO 2</u></b></p>			
<p><b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b></p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><u>Proprietary products in descriptions:</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><u>Cost of tests:</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p>			
<p><u>Formwork:</u></p>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
<p><b>Carried to Collection</b></p>		R	
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Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

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

**Concrete tests**

1	Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional).	Sets	3
2	The cost of preliminary tests prior to approval of the Contractor's materials and mixes shall be borne by the contractor.		Item
3	Should the Engineer require any load test to be carried out because of the Contractor's failure to comply with instruction, the cost of such load tests shall be borne by the Contractor.		Item
4	All concrete slump tests must be prepared and paid for by the Contractor.		Item

**Reinforced concrete**

**30MPa/19mm concrete :**

5	30MPa/19mm Reinforced concrete floors including beams etc., cast on waterproofing.	m3	46
6	30MPa/19mm Reinforced concrete ring beams.	m3	8
7	Slabs	m3	0,4

**SUNDRIES**

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<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>				
8	Surface beds, slabs, etc	m2	173	
<b><u>FORMWORK</u></b>				
<b><u>Rough formwork to sides</u></b>				
9	Rough formwork to sides: Raft Foundation	m2	40	
<b><u>Smooth formwork to soffits and sides:</u></b>				
10	Soffits and sides of slabs propped up not exceeding 3,5m high.	m2	4	
11	Soffits and sides of ring beam, not exceeding 3,5m high.	m2	140	
<b><u>MOVEMENT JOINTS</u></b>				
12	20 mm Thick polystyrene expansion joint board in expansion joint between concrete or concrete and brickwork surfaces not exceeding 300 mm wide.	m	26	
<b><u>STEEL REINFORCEMENT (PROVISIONAL)</u></b>				
<b><u>High tensile reinforcement.</u></b>				
13	25mm Diameter rods.	t	2,29	
14	16 mm Diameter rods.	t	0,46	
15	10 mm Diameter rods.	t	2,40	
16	8 mm Diameter rods.	t	0,33	
<b><u>Mesh reinforcement</u></b>				
17	Ditto but Ref. 193	m2	169	
18	Ditto but Ref. 356	m2	169	
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1	Half brick walls	m2	31	
	<p><b><u>BRICKWORK IN SUPERSTRUCTURE</u></b></p>			
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**14MPa clay stock bricks (NFP), overall size 220 x 140 x 70mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class II mortar.**

2	Piers	m3	2
3	Half brick walls	m2	31
4	Ditto in beam filling	m2	9
5	One brick walls	m2	33
6	270mm Hollow walls of two half brick skins with cavities filled in with and including brick ties and 50mm thick 'SAGEX' or other equally approved insulation to cavity wall.	m2	122

**BRICKWORK SUNDRIES**

**Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixal" bitumen emulsion waterproofing coating:**

7	Bag down surfaces of inner skin of brickwork in 1:6 cement mortar slurry as the work proceeds to a smooth,even surface and apply bitumen waterproofing.	m2	122
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**Ties and Cramps**

8	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into brickwork or concrete.	No	24
9	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	34

**Brick reinforcement**

10	75 mm wide reinforcement built in horizontally	m	3 968
11	Ditto, but in foundations (Provisional).	m	159
12	150 mm wide reinforcement built in horizontally	m	68

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<b><u>Concrete prestressed fabricated lintels</u></b>			
13	110 x 75mm Lintels	m	3
14	150 x 70mm Lintels	m	15
<b><u>Turning pieces:</u></b>			
15	100mm Wide turning piece to lintels etc.	m	3
16	200mm Wide turning piece to lintels etc.	m	15
<b><u>Joint forming material in movement joints</u></b>			
17	12mm Fibre board built in vertically between brick skins not exceeding 300mm wide.	m	12
18	Ditto in foundations (provisional)	m	1
<b><u>FACE BRICKWORK</u></b>			
<b><u>Selected 30-40MPa FBA clay face brick, size 222 x 106 x 73mm, manufactured in accordance with 227:2007, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u></b>			
19	Half brick walls pointed on both sides.	m2	31
20	Extra over brickwork for face brickwork in beamfilling	m2	22
21	Extra over brickwork for face brickwork in piers	m2	15
22	Extra over brickwork for face brickwork internally.	m2	38
23	Extra over brickwork for face brickwork externally.	m2	69
24	Ditto, but in foundations (Provisional).	m2	18
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**Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:**

25	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	18
26	220mm Brick on edge course to top of one brick wall embedded in concrete and jointed in cement mortar and pointed on top as described.	m	33
27	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	13
28	Fair raking cutting	m	1

**FIBRE CEMENT WINDOW SILLS**

29	Sills set flat and slightly projecting internally and pointing in (3:1) cement mortar	m	13
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Masonry

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Bill No. 3

Masonry

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>WATERPROOFING</u></b>			
	NOTE : Tenderers are advised to study the "Standard Preambles to Trades" before pricing this bill			
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 250 micron "Gunplas USB Green or Similar approved" waterproof sheeting sealed at laps with approved "Superstick" tape:</u></b>			
1	Damp proof membrane laid on filling under solid floors, lapped 100mm and sealed at all joinings (Measured nett)	m2	268	
	<b><u>One layer of 375 micron "Gunplas USB Green or Similar approved" Brickgrip DPC waterproof sheeting below walls, sills, etc:</u></b>			
2	In walls laid horizontally and built into walls or stepped up cavity lapped 150mm at all angles and passings (Measured nett)	m2	23	
	<b><u>JOINT SEALANTS, ETC</u></b>			
3	Clear silicone joint sealing and pointing between external steel/aluminium door/window frames and facebrick surround.	m	62	
4	10 mm Polysulphide sealant in isolation joint.	m	10	
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	<b>Section No. 2</b>			
	<b>Bill No. 4</b>			
	<b>Waterproofing</b>			
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Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 6</u></b></p>			
<p><b><u>ROOF COVERINGS ETC.</u></b></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><u>Proprietary products in descriptions:</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><u>Fixing:</u></p>			
<p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.</p>			
<p><u>Guarantee:</u></p>			
<p>The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.</p>			
<p><b>Carried to Collection</b></p>		R	
<p><b>Section No. 2 Bill No. 5 Roof Coverings, Etc U1604 - CABANE JSS - COMPLETION</b></p>			

Pricing:

Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).

**ROOF SHEETING AND ACCESSORIES**

**Global Roofing Solutions (OR SIMILAR APPROVED)  
0.8mm thick 762mm cover, Corrugated profile Z200  
spelter ISO300 galvanised steel roof sheeting with  
Chromadek finish, fixed to carbolineum treated 76 x  
50mm SA Pine intermediate purlins at maximum 1000mm  
centres and eaves and ridge purlins at 900mm centres  
using Hex Flange Head + EPDM Seal selfdrilling Type 17  
drill point, No. 12-11 x 65mm long, Class 3, fasteners.  
Purlin fixed to first, fourth and eighth crest of each sheet  
and at all crests at sheet ends, all in accordance with the  
manufacturer's specifications.**

1	Roof covering with pitch not exceeding 25 degrees	m2	233
2	Ridge capping 462mm girth	m	5
3	Hip capping 462mm girth	m	26
4	Serrated ridge closers	m	62

**ROOF AND WALL INSULATION**

**"Sisalation 420" heavy industrial grade aluminium foil  
based insulation**

5	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires	m2	233
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<b>Roof Coverings, Etc</b>			
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<b>Section No. 2</b>			
<b>Bill No. 5</b>			
<b>Roof Coverings, Etc</b>			
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill			
	<b><u>ROOFS ETC</u></b>			
	<b><u>Sawn softwood:</u></b>			
1	38 x 228mm Gang boarding. (Provisional).	m	16	
	<b><u>Wrought softwood:</u></b>			
2	50 x 76mm Bearer fascia support (Provisional).	m	65	
	<b><u>Sundries:</u></b>			
3	Fix only bolt through average 38mm softwood including drilling hole.	No	24	
4	Fix only bolt through average 70mm softwood including drilling hole.	No	8	
	<b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>			
	<u>Plate nailed timber roof truss construction:</u>			
	<b>Note:</b> Tenderers are referred to the Architects roof plan drawings annexed to these bills of quantities / accompanying these bills of quantities for tender purposes. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design.			
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**Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.**

- 5 Roof construction to double hip style roof to Grade R Classroom Block, size 17,690 x 12,572mm average on plan, 2,100mm high overall including wall plates, trusses, permanent bracing, purlins, valley boards, tilting purlin at eaves with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties. All exposed timbers at eaves, verges etc are to be wrot and including painting with two coats "ABE Provonite", installed complete all as indicated on Architect's drawing

m2 222

**EAVES, VERGES, ETC**

**Pressed fibre-cement:**

- 6 12 x 225mm pressed fibre cement fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.

m 65

**DOORS AND PANELS**

**Wrot Meranti doors**

- 7 44 mm Thick framed, ledged and braced batten door size 813 x 2 032 mm high of 40 x 110 mm top rail and stiles, 20 x 150 mm middle ledge and braces and 20 x 225 mm bottom rail filled in with 70 x 22 T&G V-jointed on one side boarding and covered on other side with 6 mm ply covering to match door let into and including rebates all round.

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8	40mm Thick purpose made 'Hardwood' double door size 1800 x 2032mm with rebated double leaves with 40 x 140mm top rails, mid rails and styles, and 40 x 210mm bottom rails, fitted with four glass panels (elsewhere measured) .(Refer to attached drawing no 420-D01)	No	1	
	<b><u>Solid doors hung to timber frames</u></b>			
9	44mm Single door 813 x 2032mm high composed of 34mm solid chipboard core with 34X31mm hardwood edging/frame with 3mm masonite to both sides of finish suitable for painting.	No	2	
	<b><u>FRAMED FRAMES ETC</u></b>			
	<b><u>Wrought meranti:</u></b>			
10	70 x 108mm Purpose made, once rebated and angle rounded door frames plugged.	m	16	
	<b><u>SKIRTINGS,ETC</u></b>			
	<b><u>Wrought Meranti</u></b>			
11	19 x 70 mm Skirtings including 19mm quadrant plugged to walls.	m	67	
12	19 x 70mm Architrave plugged.	m	16	
	<b><u>Sundries:</u></b>			
13	32 x 76 mm Wrot Meranti rebated and splayed weatherboard screwed to door.	m	3	
	<b><u>SHELVES</u></b>			
14	326 x 19mm Thick laminated wrot S A pine shelving with rounded edges on front side, screwed to brackets (elsewhere measured).	m	21	
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**FITTINGS**

Descriptions for the following joinery fittings, etc., shall be deemed to include all ironmongery, metalwork, paint finishes, laminated finishes, etc., and for assembling and installing complete.

All doors, drawer fronts and cupboard carcasses are to be constructed out of 18mm Melamine faced "V313" moisture resistant particle board with concealed edges.

All worktops in general are to be 32mm solid post formed Formica on "V313 HMR" particle board in non-moisture areas.

The rate for formica or similar finish to particle board, etc., must also include for a balancing veneer on the other side and for formica edge strips on all exposed edges.

The Contractor's rates must also allow for fixing together of various components by a method that is approved by the Principal Agent.

The fittings generally have been measured in modules and the Type references after each module refer to the fittings of which they form a part.

The general shape, size, details and specification of the units are shown on the architectural drawings and Tenderers shall allow in their rates for the full intent of the work described and shown on the drawings.

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<p>The stated dimensions of units described as L-Shaped on plan or U-shaped on plan are the extreme dimensions of the component, i.e. the overall length measured over the external face.</p> <p>The dimensions of cupboards, lockers, storage units, etc., are stated in the following order :- width x depth x height.</p>			
<p>Unless otherwise described all steel posts, bearers, brackets, etc., shall be galvanised mild steel finished with one coat calcium plumbate primer and two coats gloss enamel paint and prices shall include for bolting to floor or wall.</p>			
<p><b><u>JOINERY FITTINGS</u></b></p>			
<p>15 Classroom cupboard unit, size 4999 x 450 x 720mm high, including all finishes, all as indicated on <b>Drawing No 500-PR02 elevations 4 and 5.</b></p>	No	1	
<p><b><u>THE FOLLOWING IN WORKTOPS AND BUILT-IN CUPBOARDS IN GRADE R CLASSROOM (Drawing No 500-PR02)</u></b></p>			
<p><b><u>Wrought laminated Saligna:</u></b></p>			
<p>16 32mm Thick postformed worktop 3859mm long x 650mm wide with rounded edge and 0,8mm thick pressure laminate venetto black granite laminate all round and screwed to support brackets from underneath</p>	No	1	
<p><b><u>"Melawood Melamine" impact particle board edged all round:</u></b></p>			
<p>17 19 x 44mm Framing</p>	m	17	
<p>18 19 x 100mm Skirtings and bearers</p>	m	20	
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<b><u>Tempered hardboard with white laminated veneer</u></b>					
19	3,4mm Backing	m2	4		
<b><u>"Melawood" melamine faced chipboard</u></b>					
20	16mm Tops, shelves, sides, divisions, etc	m2	5		
21	16mm Adjustable shelving	m2	1		
22	Edge strips 16mm wide	m	20		
23	Drawer 500 x 520 x 150mm deep overall of 16mm edged and grooved front, sides and back, 570 x 183 x 16mm "Supawood" front cover panel and 3mm tempered hardboard bottom	No	4		
<b><u>"Supawood" chipboard</u></b>					
24	16mm Cupboard door 580 x 743mm high	No	1		
<b><u>THE FOLLOWING IN WORKTOPS AND BUILT-IN CUPBOARDS IN GRADE-R STORE (Drawing No 500-PR02)</u></b>					
<b><u>Wrought laminated Saligna:</u></b>					
25	32mm Thick postformed worktop 5374mm long x 475mm wide with rounded edge and 0,8mm thick pressure laminate venetto black granite laminate all round and screwed to support brackets from underneath	No	1		
<b><u>"Melawood Melamine" impact particle board edged all round:</u></b>					
26	19 x 44mm Framing	m	11		
27	19 x 100mm Skirtings and bearers	m	5		
<b><u>Tempered hardboard with white laminated veneer</u></b>					
28	3,4mm Backing	m2	5		
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<b><u>"Melawood" melamine faced chipboard</u></b>			
29	16mm Tops, shelves, sides, divisions, etc	m2	3
30	16mm Adjustable shelving	m2	2
31	Edge strips 16mm wide	m	30
<b><u>THE FOLLOWING IN WORKTOPS AND BUILT-IN CUPBOARDS IN GRADE-R KITCHEN</u></b>			
<b><u>Wrought laminated Saligna:</u></b>			
32	32mm Thick postformed worktop 7099mm long x 600mm wide with rounded edge and 0,8mm thick pressure laminate venetto black granite laminate all round and screwed to support brackets from underneath	No	1
<b><u>"Melawood Melamine" impact particle board edged all round:</u></b>			
33	19 x 44mm Framing	m	53
34	19 x 100mm Skirtings and bearers	m	8
<b><u>Tempered hardboard with white laminated veneer</u></b>			
35	3,4mm Backing	m2	7
<b><u>"Melawood" melamine faced particle board</u></b>			
36	16mm Tops, shelves, sides, divisions, etc	m2	4
37	16mm Adjustable shelving	m2	4
38	Edge strips 16mm wide	m	30
39	Cut-out in top for drop-in sink	No	2
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**"Supawood" particle board**

40	16mm Cupboard door 450 x 786mm high	No	8
41	16mm Cupboard door 522 x 743mm high	No	1
42	Edge strips 32mm wide	m	40

**JOINERY SUNDRIES**

**Wrought meranti:**

43	Slatted seats of 300 x 300mm attached to concrete or brickwork.	m2	10
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Bill No. 6

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	<b><u>BILL NO. 8</u></b>			
	<b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b>			
	NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill			
	<b><u>NAILED UP CEILINGS</u></b>			
	<b><u>4mm Plain fibre cement ceiling boards fixed to and including 38mm x 50mm S.A. Pine brandering at maximum 450mm centres, with cross brandering at joints, end of sheets,</u></b>			
1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	93	
	<b><u>Trap doors ,etc</u></b>			
2	Extra over Fibre-cement ceiling for forming trap door size 630 x 630mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers.	No	1	
	<b><u>Cornices and light fittings, nailed @ 150mm centres,</u></b>			
3	76 x 19mm angle rounded wrot meranti cornice with matching 19mm quadrant bead. Finish as per finishing schedule.	m	72	
	<b><u>INSULATION</u></b>			
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	Ceilings, Partitions and Access Flooring			
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**Non-combustible polyester thermal insulation of a density of not less than 10kg/m3:**

4 100mm Alutherm® polyester fibre blanket laminated to 4mm white bubble layer on one side and reinforced foil facing on other complying with SANS 1381-1:2007, laid and stapled horizontally on top of timber rafters and brandering before fixing of roof sheeting (elsewhere specified). **Or other equally approved.**

m2

93

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO.2</u></b></p>			
<p><b><u>BILL NO.9</u></b></p>			
<p><b><u>FLOOR COVERINGS, WALL LININGS,ETC.</u></b></p>			
<p>NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill</p>			
<p>NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns.</p>			
<p>"Unevenness/wavering" of screed substrate to be made good by specialist sub-contractor to smooth uniform, flat and true surface prior to vinyl sheeting application.</p>			
<p><b><u>VINYL FLOOR COVERINGS</u></b></p>			
<p><b><u>SUPPLY AND LAYING OF VINYL SHEETING ON CONCRETE SLABS</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 2                      Bill No. 8                      Floor Coverings                      U1604 - CABANE JSS - COMPLETION</p>			

Supply and fix 2.5mm thick x 1.2m wide fully flexible vinyl sheeting (SABS certified), manufactured in accordance with SANS 786 and laid in No. 62 acrylic adhesive which has been spread using a trowel fitted with an A2 notched blade at a rate of between 5.5m<sup>2</sup> and 6.5m<sup>2</sup> per litre on a previously prepared Class 1 sub-floor in accordance with SANS 10070, (using Self Leveller when required), including all cutting and waste.

The sheeting must be rolled in both directions with an articulated 68kg three-sectional roller immediately after it has been laid into the adhesive. Joints must be butted, grooved and heat welded using matching Welding Rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness.

The newly laid floor must, after 72 hours, be stripped using suitable vinyl floor Stripper, scrubbed using a diluted solution of Rinse and then sealed with 3 coats of Silk Matt or Gloss Sealer.

All the above strictly in accordance with manufacturers recommendations by approved fully qualified flooring contractors`.

**ADD:**

1. Power float the slab to avoid potential screed failures
2. No saw cut joints inside classrooms- use thicker mesh in slab
3. Either vinyl skirting turned up or silicon below timber skirtings to prevent water ingress below vinyl

1	On floors	m2	93	
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**POLISH, SEALERS, ETC**

2	Three coats wax polish on vinyl flooring	m2	93	
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Floor Coverings

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Floor Coverings

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<u>NOTE :Tenderers are advised to study the " Standard Trade Preambles" before pricing this bill.</u>			
	<u>Note:Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u>			
	<b><u>Proprietary products in descriptions</u></b>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
	<b><u>HINGES, BOLTS, ETC</u></b>			
	<b><u>Hinges:</u></b>			
1	100 x 75 mm Solid brass double washered butt hinge	Pairs	5	
2	Ball bearing butt hinge as "Dorma DBB - SS - 009", size 102x75x3mm.	No	4	
3	Dorma "DFB-SS-027" 160mm stainless steel flush bolt fitted.	No	2	
	<b><u>Solid</u></b>			
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>Solid</u></b>			
4	100mm SC cabin hook and eye	No	3	
5	Halstead 401 floor mounted door holder	No	5	
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	<b>Ironmongery</b>			
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<u>Locks</u>				
6	Four lever mortice lockset with striking plate fixed to door frame including satin-chrome plated handles.	No	1	
7	Union L-2241-78 oval cylinder mortice lockset with a 57mm backset	No	1	
8	2 x 8SCMKD Union half cylinder lock	No	1	
9	Union CB2979SC rebate conversion set	No	1	
10	Union 2x6SC Oval double cylinder with 2 keys 65mm, with satin chrome finish	No	1	
11	Padlock with three keys (3102/38).	No	2	
<u>HANDLES</u>				
<u>"Union":</u>				
12	Solid CB612-13 Protea handles	No	6	
13	CB612/06/13SC Union Protea lever furniture	No	2	
<u>LETTERS, NAMEPLATES, ETC</u>				
<u>Acrylic door plates:</u>				
14	250 x 40 x 6mm Thick white acrylic door name plate with nine to fifteen letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	4	
15	250 x 40 x 6mm Thick white acrylic door name plate with fifteen to twenty letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	1	
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**Sign plates:**

16	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door (AL5066E-06/2AS).	No	2
17	152 x 152 x 2mm Anodised silver engraved sign with Directional Pictogram E08, fixed to wall or door (AL5066E-08/2AS).	No	2

**ADJUSTABLE SHELVING**

**Shelving system with ivory baked epoxy powder coating**

18	Shelf brackets for 450mm timber shelves as type "WFO 18"	No	48
19	Wallbands 2110mm long as type "WB7", plugged to brickwork or concrete	No	12

**CHALK BOARDS**

**Writing boards**

20	Green vitreous enamelled magnetic writing board size 4800 x 1200mm high complete with aluminium chalk rail, etc and fixed to wall.	No	1
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**PINNING BOARDS**

21	2400mm Wide x 1250mm high pinning board, as per detail, mounted to wall with 6 x 57mm Hilti HPS-1 6/30 plastic anchors at maximum 400mm centres. Top of frame to be in line with underside of window soffits. Anchor heads to be countersunk and filled with a suitable wood filler.	No	1
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**STATIONERY CUPBOARDS**

22	1800mm high x 900mm wide x 450mm deep steel cupboard, complete with four shelves, double lockable doors and powder coated finish - code CU10 as by "Insight". Steel cupboards to be bolted to back wall with 4 x 6mm expansion bolts.	No	2
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**FIRST AID CUPBOARD**

23	710 x 770mm, 280mm deep White Epoxy Coated Metal Double Door Wall Mounted Storage Cabinet.	No	1
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**SUNDRIES**

24	32 mm Diameter polished hardwood longarm 3 m long with brass pole hook on one end, two broom clips each with 20 x 100 x 100 mm wrought and chamfered hardwood block twice holed and plugged and 20 x 70 x 70 mm wrought and chamfered hardwood block with sinking twice holed and plugged	No	1
25	20mm diametre chromium plated key ring with and including plastic keytag.	No	5

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Ironmongery

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Section No. 2

Bill No. 9

Ironmongery

U1604 - CABANE JSS - COMPLETION



**ALUMINIUM WINDOWS**

**Natural anodised aluminium windows, factory glazed with 6.38mm laminated safety glass with clip-on glazing beads, with neoprene seals and fixed with minimum three lugs per side in accordance with manufacture's instructions:**

5	Purpose made top hung aluminium window size 987 x 976mm high including 8x20mm horizontal flat bars not exceeding 100mm centres. (Drawing No 410-W01)	No	13
6	Purpose made Fixed aluminium window size 600 x 900mm high. (Drawing No 410-W02)	No	1

**GATES, ETC**

7	Hot dipped galvanised Security gate in single leaf size 900 x 1454mm high formed of 40 x 40 x 2mm angle outer frame with 50mm wide x 1,2mm thick @ 45° solid steel slats, with 38 x 38 x 10mm thick plates as hinges with rounded ends to one side and hole for 18mm diameter pin hung on pair of socketed and pinned hinges with pin 18 mm in diameter and bolted to brick wall, with 200mm locking bolt welded on, or other Architect approved hinges, all as indicated on Architect's drawings. (Drawing No 501-PR2 - Item No 6 to 10)	No	1
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Carried to Collection

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Section No. 2  
 Bill No. 10  
 Metalwork  
 U1604 - CABANE JSS - COMPLETION

Section No. 2

Bill No. 10

Metalwork

COLLECTION

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Amount

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Section No. 2

Bill No. 10

Metalwork

U1604 - CABANE JSS - COMPLETION

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PLASTERING</u></b>			
	NOTE : Tenderers are advised to study the "Standard Preambles to Trades" before pricing this bill			
	<b><u>GRONOLITHIC</u></b>			
	<b><u>Untinted granolithic finish to concrete</u></b>			
1	Average 40mm finish to horizontal surfaces to falls	m2	5	
	<b><u>SCREEDS</u></b>			
	<b><u>1:3 Cement mortar screed finished smooth with a steel trowel</u></b>			
2	30 mm to floors and landings.	m2	93	
	<b><u>PLASTERING</u></b>			
	<b><u>Internally</u></b>			
	<b><u>One coat cement plaster 15 mm thick with 1 : 5 cement mix finished to a smooth even surface with a steel trowel, finished to brickwork and concrete with v-joints cut into junction between on:</u></b>			
3	Walls	m2	139	
4	Reveals, returns, etc. in narrow widths not exceeding 300 mm wide.	m2	8	
	<b><u>EXTERNAL PLASTER</u></b>			
	<b><u>One coat (4:1) cement plaster on brickwork or concrete finished with a steel trowel on:</u></b>			
5	Vertical surfaces including walls, columns, piers, etc	m2	137	
	<b>Carried to Collection</b>			R
	<b>Section No. 2</b>			
	<b>Bill No. 11</b>			
	<b>Plastering</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

6	Narrow widths not exceeding 300mm wide	m2	5		
<b>Carried to Collection</b>					R
<b>Section No. 2 Bill No. 11 Plastering U1604 - CABANE JSS - COMPLETION</b>					

			Amount
<b>Section No. 2</b>			
<b>Bill No. 11</b>			
<b>Plastering</b>			
<b><u>COLLECTION</u></b>			
Total Brought Forward from Page No.	<b>Page No</b>		
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<b>Section No. 2</b>			
<b>Bill No. 11</b>			
<b>Plastering</b>			
<b>U1604 - CABANE JSS - COMPLETION</b>			

Item No	<b><u>SECTION 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO 13</u></b>			
	<b><u>TILING</u></b>			
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.			
	<b><u>WALL TILING</u></b>			
	<b><u>200 x 200 White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u></b>			
1	On walls	m2	2	
	<b><u>Edge Trims:</u></b>			
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	<b>Section No. 2</b> <b>Bill No. 12</b> <b>Tiling</b> <b>U1604 - CABANE JSS - COMPLETION</b>			

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 14</u></b></p>			
<p><b><u>PLUMBING (PROVISIONAL)</u></b></p>			
<p>NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Concrete pipes</u></b></p>			
<p>Pipes shall be jointed with Ogee joints with rubber collars or socket and spigot joints with rubber rings</p>			
<p><b><u>Copper pipes</u></b></p>			
<p>Pipes shall be hard drawn and half hard pipes of the class stated. Class 0 (Thin walled hard drawn) pipes shall not be burnt. Class 1 ( Thin walled half hard) pipes shall only be burnt with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be Cobra Watertech type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p>			
<p><b><u>Reducing fittings</u></b></p>			
<p>Wher fittings have reducing ends or branches, they are described as "reducing". In the case of pipes with diameters not exceeding 60 mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers, he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60 mm, all sizes are given and no claim for bushes, reducers, etc will be entertained.</p>			
<p><b>Carried to Collection</b></p>		R	
<p><b>Section No. 2</b>  <b>Bill No. 13</b>  <b>Plumbing and Drainage (Provisional)</b>  <b>U1604 - CABANE JSS - COMPLETION</b></p>			

**Wire gratings**

Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings

**Excavations**

No claim for rock excavations will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof.

"Soft rock and Hard rock" shall be as defined in "Earthworks"

**Laying, backfilling, bedding, etc of pipes**

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions.

Where no manufacturer's instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following : SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SAB.

**Flush pans**

Flush pans shall have straight or side outlets and P or S traps as deemed necessary

**Stainless steel basins, sinks, washtroughs, urinals, etc**

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

**Waste unions**

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

**Carried to Collection**

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**Section No. 2  
Bill No. 13  
Plumbing and Drainage (Provisional)  
U1604 - CABANE JSS - COMPLETION**

**RAINWATER DISPOSAL (PROVISIONAL):**

**Watertite (OR SIMILAR APPROVED) seamless aluminium gutter, coated internally and externally with ColourTech G4 (OR SIMILAR APPROVED) in colour Marble White**

1	150 x 100 x 0,6mm thick Watertite (OR SIMILAR APPROVED) seamless aluminium gutter, coated internally and externally with ColourTech G4 (OR SIMILAR APPROVED) in colour Marble White.	m	65
2	Extra over eaves gutter for 90 degrees angle.	No	4
3	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	2
4	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	10
5	Extra over rainwater pipe for bend.	No	6

**SANITARY FITTINGS**

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)

**Stainless steel**

6	Franke Quinline Model QLX611 Grade 304 18/10 polished stainless steel single end bowl inset sink (Code: 820000), overall size 900 x 500mm with one 343 x 410 x 166mm deep bowl, fitted onto cupboard (elsewhere specified) including 90mm waste fitting (Code: 300651) and Spazi F/1 plumbing kit (Code: 301151).	No	1
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**Polyethylene fittings:**

7	Atlas Plastics rotomoulded polyethylene 65 litre wash trough with galvanised brackets (Code: 371AP), size 535 x 415mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets.	No	1
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**Section No. 2  
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8	Atlas Plastics rotomoulded polyethylene Christy wash hand basin (code: 382AP) 570mm x 395mm wide, or equal approved, with 2 tapholes and 40mm waste outlet, plugged and screwed to the wall with galvanised screws and brackets.	No	1		
	<b><u>Waste Unions, etc</u></b>				
9	32 mm 301 CP waste union.	No	2		
10	40 mm 316 CP sink waste union.	No	1		
	<b><u>Traps, etc</u></b>				
11	40 x 50 mm Reseal 'P' or 'S'trap.	No	3		
	<b><u>Taps, Valves, etc</u></b>				
12	15 mm 111 CP "Star" pillartap.	No	3		
13	15mm 166/041 CP "Star" sink mixer	No	1		
	<b><u>Brass</u></b>				
14	15 mm Stopcock.	No	2		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC pipes</u></b>				
15	40 mm Pipes	m	5		
16	50 mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	10		
	<b><u>Extra over uPVC pipes for</u></b>				
17	40mm Bend	No	4		
18	40mm Access bend	No	4		
	<b>Carried to Collection</b>				R
	<b>Section No. 2</b>				
	<b>Bill No. 13</b>				
	<b>Plumbing and Drainage (Provisional)</b>				
	<b>U1604 - CABANE JSS - COMPLETION</b>				

	<b><u>PVC vent pipes and fittings</u></b>				
	50mm Pipe fixed to walls	m	8		
	<b><u>Manholes, gulley traps,etc</u></b>				
19	100mm Gulley not exceeding 1000mm deep	No	2		
	<b><u>Testing:</u></b>				
20	Testing waste pipe system		Item		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
21	15 mm Pipes	m	20		
22	22 mm Pipes	m	10		
	<b><u>Extra over class 0 copper pipes for brass capillary fittings</u></b>				
23	15 mm Fittings	No	10		
24	22 mm Fittings	No	10		
	<b><u>Extra over class 0 copper pipes for conex compression fittings</u></b>				
25	15 mm Fittings	No	4		
26	22 mm Fittings	No	2		
	<b><u>Copper overflow and service pipes</u></b>				
	<b><u>Testing</u></b>				
27	Testing of water pipe system		Item		
	<b><u>ELECTRIC WATER PUMP</u></b>				
28	'Hydro 2 Tap Acson PEM 3' or equally approved electric water pump including all necessary accessories, all to architect's approval.	No	1		
	<b>Carried to Collection</b>				R
	<b>Section No. 2</b>				
	<b>Bill No. 13</b>				
	<b>Plumbing and Drainage (Provisional)</b>				
	<b>U1604 - CABANE JSS - COMPLETION</b>				

**FIRE APPLIANCES, ETC**

**Fire extinguisher**

29	4.5 Kg DCP fire extinguisher including backboard, plugged and screwed (Provisional)	No	1
30	9 Kg DCP fire extinguisher including backboard, plugged and screwed (Provisional)	No	1
31	Standard SABS approved, lockable PVC fire extinguisher cabinet, colour red, suitable for two 9kg fire extinguishers fixed to wall.	No	1

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Section No. 2  
 Bill No. 13  
 Plumbing and Drainage (Provisional)  
 U1604 - CABANE JSS - COMPLETION

Section No. 2

Bill No. 13

Plumbing and Drainage (Provisional)

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Bill No. 13

Plumbing and Drainage (Provisional)

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 16</u></b>			
	<b><u>PAINT WORK</u></b>			
	NOTE : Tenderers are advised to study the "Standard Preambles to Trades" before pricing this bill			
	<b><u>PAINTWORK, ETC TO NEW WORK</u></b>			
	<b><u>UPVC PIPES</u></b>			
	<b><u>Prepare surface as described and apply one undercoat and one coat PVA emulsion paint:</u></b>			
	<b><u>ON METAL</u></b>			
	<b><u>Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised metal primer and finish with two coats superior universal non drip enamel on:</u></b>			
1	Exterior gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	3	
	<b><u>ON WOOD</u></b>			
	<b><u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality smooth gloss enamel on:</u></b>			
2	General surfaces of timbers at eaves.	m2	30	
	<b><u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u></b>			
3	Wooden frames and linings	m2	6	
4	Doors (all surfaces measured).	m2	17	
5	Shelving	m2	17	
	<b>Carried to Collection</b>			R
	<b>Section No. 2</b>			
	<b>Bill No. 15</b>			
	<b>Paintwork</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

6	On interior skirtings, rails, etc not exceeding 300 mm girth	m	67	
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>Prepare and apply two coats pure acrylic roof paint on:</u></b>			
7	Fascias and barge boards.	m2	39	
	<b><u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine and paint with two coats pure acrylic paint on:</u></b>			
8	On ceilings	m2	93	
	<b><u>Prepare and apply one coat universal primer, one undercoat and two coats superior quality eggshell enamel:</u></b>			
9	On sills.	m2	3	
	<b><u>ON PLASTERED SURFACES</u></b>			
	<b><u>Prepare and apply one undercoat and paint with two coats premium quality pure acrylic PVA on:</u></b>			
10	On external walls	m2	142	
11	Interior walls.	m2	147	
	<b>Carried to Collection</b>			R
	<b>Section No. 2</b>			
	<b>Bill No. 15</b>			
	<b>Paintwork</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

Section No. 2

Bill No. 15

Paintwork

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Section No. 2

Bill No. 15

Paintwork

U1604 - CABANE JSS - COMPLETION

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1	Earthworks	57	
2	Concrete, Formwork & Reinforcement	61	
3	Masonry	66	
4	Waterproofing	67	
5	Roof Coverings, Etc	70	
6	Carpentry and Joinery	80	
7	Ceilings, Partitions and Access Flooring	83	
8	Floor Coverings	86	
9	Ironmongery	91	
10	Metalwork	94	
11	Plastering	97	
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13	Plumbing and Drainage (Provisional)	105	
14	Glazing	106	
15	Paintwork	109	
	<b>Carried to Final Summary</b>		R
	<b>Section No. 2 U1604 - CABANE JSS - COMPLETION</b>		

Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PIT TOILETS (PROVISIONAL)</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
1	Clear the whole of the site of all grass, roots, rubbish, etc. including stripping vegetable soil from the building area.	m2	73	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavate in pickable material not exceeding 2 m deep below natural or reduced ground level</u></b>			
2	Surface trenches.	m3	6	
3	Toilet pit.	m3	46	
	<b><u>Excavate in earth exceeding 2,00 m and not exceeding 4,00 m deep below natural or reduced ground level</u></b>			
4	Toilet pit.	m3	1	
	<b><u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc. for excavation</u></b>			
5	Soft rock.	m3	5	
6	Hard rock.	m3	5	
	<b><u>Risk of collapse of excavations</u></b>			
7	Allow for risk of collapse to sides of excavations to column bases, trenches, pits, etc. from ground level to not exceeding 1.5 m deep.	m2	20	
8	Ditto, from ground level to exceeding 1,50 m deep.	m2	42	
	<b>Carried to Collection</b>			R
	<b>Section No. 3</b>			
	<b>Bill No. 1</b>			
	<b>Pit Toilets</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

<b><u>Extra over all excavations for carting away</u></b>				
9	Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100 m from the excavations. (Measured nett - no allowance made for bulking).	m3	45	
<b><u>Keeping excavations free of water</u></b>				
10	Allow for keeping excavations entirely free from water or mud.		Item	
<b><u>FILLING ETC</u></b>				
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u></b>				
11	Under floors, steps, pavings, etc	m3	2	
12	Backfilling to trenches, holes, etc	m3	2	
<b><u>Earth filling supplied by the contractor, compacted to 93% Mod AASHTO density</u></b>				
13	Under floors, steps, pavings, etc	m3	9	
<b><u>Coarse river sand filling supplied by the contractor</u></b>				
14	Under floors etc	m3	4	
<b><u>Compaction of surfaces</u></b>				
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	13	
<b><u>Prescribed density tests on filling</u></b>				
16	"Modified AASHTO Density" test	No	2	
<b><u>SOIL POISONING</u></b>				
<b>Carried to Collection</b>				R
<b>Section No. 3</b>				
<b>Bill No. 1</b>				
<b>Pit Toilets</b>				
<b>U1604 - CABANE JSS - COMPLETION</b>				

<b><u>Soil insecticide</u></b>				
17	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	21	
18	To bottoms and sides of trenches etc	m2	33	
<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>				
<b><u>15 MPa/19mm Mass concrete</u></b>				
19	Blinding.	m3	1	
<b><u>25 MPa/19mm Reinforced concrete</u></b>				
20	Reinforced concrete surface beds	m3	2	
<b><u>30 MPa/19mm Reinforced concrete:</u></b>				
21	Reinforced concrete pit base	m3	5	
22	Wall footings cast against excavated surfaces.	m3	2	
23	Slabs.	m3	3	
<b><u>SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>				
24	Surface beds, slabs, etc	m2	34	
<b><u>Concrete tests</u></b>				
25	Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional).	Sets	4	
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY 11)</u></b>				
<b>Carried to Collection</b>				
Section No. 3				
Bill No. 1				
Pit Toilets				
U1604 - CABANE JSS - COMPLETION				
				R

<b><u>Permanent formwork</u></b>					
26	Soffit of slab over pit.	m2	13		
<b><u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u></b>					
27	470 mm Diameter opening through 170 mm thick slab.	No	10		
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>					
<b><u>High tensile steel reinforcement</u></b>					
28	12 mm Diameter bars	kg	500		
29	8mm Diameter bars	kg	400		
<b><u>Mild steel reinforcement</u></b>					
<b><u>Fabric reinforcement</u></b>					
30	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	34		
31	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	17		
<b><u>MASONRY</u></b>					
<b><u>14MPa clay stock bricks (NFP), overall size 220 x 140 x 70mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class II mortar.</u></b>					
32	One brick wall.	m2	2		
33	Half brick wall.	m2	11		
34	Ditto, but in foundations (Provisional).	m2	15		
<b>Carried to Collection</b>				R	
<b>Section No. 3</b>					
<b>Bill No. 1</b>					
<b>Pit Toilets</b>					
<b>U1604 - CABANE JSS - COMPLETION</b>					

35	270mm Hollow walls of two half brick skins in cavity walls including brick ties.	m2	42	
36	270mm Hollow walls of two half brick skins with cavities filled in with and including 15MPa/19mm concrete in foundation and pit. <b>(Provisional)</b>	m2	38	
<b><u>Weepholes, openings, etc</u></b>				
37	Form weep hole size 100 x 250mm thick through brick wall.	No	6	
<b><u>Ties and Cramps</u></b>				
38	4 mm Galvanised wire double strand roof tie 2 500 mm girth, built eight courses into top of brickwork and other end lapped around, drawn tight and spiked to wood.	No	18	
<b><u>Expansion Joints</u></b>				
<b><u>Reinforcement</u></b>				
39	"Cotts No. C1" or other approved high tensile steel brick reinforcement 55 mm wide well lapped at all angles and passings and built into brick walls.	m	374	
40	"Cotts No. C2" or other approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls.	m	260	
<b><u>FACE BRICKWORK</u></b>				
<b><u>Selected 30-40MPa FBA clay face brick, size 222 x 106 x 73mm, manufactured in accordance with 227:2007, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u></b>				
41	Half brick walls pointed on both sides.	m2	11	
42	Extra over brickwork for face brickwork internally.	m2	27	
<b>Carried to Collection</b>				R
<b>Section No. 3</b>				
<b>Bill No. 1</b>				
<b>Pit Toilets</b>				
<b>U1604 - CABANE JSS - COMPLETION</b>				



**Global Roofing Solutions (OR SIMILAR APPROVED)**  
**0,8mm thick 762mm cover, Corrugated profile Z200**  
**spelter ISO300 galvanised steel roof sheeting with**  
**Chromadek finish, fixed to carbolineum treated 76 x**  
**50mm SA Pine intermediate purlins at maximum 1000mm**  
**centres and eaves and ridge purlins at 900mm centres**  
**using Hex Flange Head + EPDM Seal selfdrilling Type 17**  
**drill point, No. 12-11 x 65mm long, Class 3, fasteners.**  
**Purlin fixed to first, fourth and eighth crest of each sheet**  
**and at all crests at sheet ends, all in accordance with the**  
**manufacturer's specifications.**

49	Roof covering with pitch not exceeding 25 degrees	m2	47
50	Ridge capping 460mm girth.	m	18
51	Serrated ridge closers	m	72

**CARPENTRY AND JOINERY**

**Sawn softwood:**

Plate nailed timber roof truss construction:

**Note:** Tenderers are referred to the Architects roof plan drawings annexed to these bills of quantities / accompanying these bills of quantities for tender purposes. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design.

Carried to Collection

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Section No. 3  
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**Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.**

52	Roof construction to double hip style roof to Grade R Ablutions Block, size 8,100 x 5,550mm average on plan, 1,100mm high overall including wall plates, trusses, permanent bracing, purlins, valley boards, tilting purlin at eaves with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties. All exposed timbers at eaves, verges etc are to be wrot and including painting with two coats "ABE Provonite", installed complete all as indicated on Architect's drawing	m2	45
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**Sundries**

53	Fix only bolt through average 70 mm softwood including drilling hole.	No	8
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**Eaves and Verges**

54	12 x 225 mm Pressed fibre cement fascia board drilled and brass screwed to rafter feet including steel jointing plates between lengths.	m	27
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**DOORS AND PANELS**

**Semi Solid doors**

55	40mm semi-solid core door size 813 x 1050 mm with Masonite Plain standard S.A.B.S approved hardboard, on both sides for door size 813 x 1050mm high.	No	4
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56	813mm wide x 1200mm high x 44mm thick semi-solid door, edged and faced with tempered veneered hardboard; finish suitable to paint.	No	1	
<b><u>FRAMED FRAMES ETC</u></b>				
<b><u>Wrought meranti:</u></b>				
57	70 x 108mm Rebated and angle rounded door frames plugged.	m	12	
<b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b>				
NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill				
<b><u>NAILED UP CEILINGS</u></b>				
<b><u>4mm Plain fibre cement ceiling boards fixed to and including 38mm x 50mm S.A. Pine brandering at maximum 450mm centres, with cross brandering at joints, end of sheets,</u></b>				
58	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	18	
<b><u>Trap doors ,etc</u></b>				
59	Extra over Fibre-cement ceiling for forming trap door size 630 x 630mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers.	No	1	
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<b><u>Cornices and light fittings, nailed @ 150mm centres,</u></b>				
60	76 x 19mm angle rounded wrot meranti cornice with matching 19mm quadrant bead. Finish as per finishing schedule.	m	18	
<b><u>IRONMONGERY</u></b>				
<b><u>Hinges:</u></b>				
61	100 x 75 mm Solid brass double washered butt hinge	Pairs	15	
<b><u>Solid</u></b>				
62	CZ8731SC Buffered door stop	No	5	
<b><u>Locks</u></b>				
63	21314-76SS Single cylinder deadlock with striking plate fixed to metal	No	5	
64	E1511 Erebus H/D adjustable roller catch	No	5	
<b><u>Handles</u></b>				
65	AL5515-300BBAS Union 300mm back to back aluminium pull handles	No	2	
<b><u>"Union"</u></b>				
66	7836 Delayed action overhead Door closer with cover fixed to metal	No	1	
<b><u>Sign Plates</u></b>				
<u>All sign plates, and door numbers are to be with engraved blue perspex all in accordance with the standard signplates for East Cape Schools to Architect's approval</u>				
67	"TEACHER/DISABLED" signplate plugged and screwed to walls with chromium plated domeheaded screws.	No	1	
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**BATHROOM FITTINGS**

**Stainless steel 32mm diameter grab rails grade 304 stainless steel:**

68	Franke CNTX750, size 750 x 90mm deep grab rails plugged and screwed to wall.	No	1
69	Franke CNTX21, size 415 x 415 x 95mm deep grab rail plugged and screwed to wall.	No	1

**PUSH PLATES AND KICKING PLATES**

70	813 x 200 x 2mm Thick satin finished stainless steel kick plate	No	2
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**METALWORK**

**Galvanised Mild Steel Framed And Welded Gate Including All Welding, Cutting, Drilling And Grinding Smooth**

71	849x2015mm hot dipped galvanised steel subframe security gate made up of 32mm x 32mm square steel frame with 8mm x 20mm flat horizontal and 10mm vertical bars with centres not exceeding 100mm.	No	1
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**Mild Steel Toilet Roll Holder**

72	12 mm Diameter toilet roll holder 370 mm girth twice bent with 8 mm diameter lug 106 mm girth once bent and welded on including building into brickwork as the work proceeds.	No	5
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**PLASTERING**

**Untinted granolithic finish to concrete**

73	Average 40 mm finish to horizontal surfaces to falls.	m2	2
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**Plastering Internally**

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	<b><u>One coat cement plaster 15 mm thick with 1 : 5 cement mix finished to a smooth even surface with a steel trowel, finished to brickwork and concrete with v-joints cut into junction between on:</u></b>			
74	Walls	m2	70	
	<b><u>Plastering Externally</u></b>			
75	Vertical surfaces including walls, columns, piers, etc	m2	18	
	<b><u>PLUMBING</u></b>			
	<b><u>Watertite (OR SIMILAR APPROVED) seamless aluminium gutter, coated internally and externally with ColourTech G4 (OR SIMILAR APPROVED) in colour Marble White</u></b>			
76	150 x 100 x 0,6 mm Rectangular section eaves gutter	m	27	
77	Extra for outlet with nozzle for 100 mm diameter rainwater pipe.	No	1	
78	100 x 75mm rainwater pipe fixed to walls with aluminium alloy holderbats brass screwed to plugs in walls.	m	2	
79	Extra for bend.	No	2	
	<b><u>PVC waste or vent pipes and fittings</u></b>			
80	50 mm Pipe fixed to walls.	m	5	
81	150 mm Pipe fixed to walls.	m	25	
	<b><u>Extra For:</u></b>			
82	50 mm Bend.	No	4	
83	150 mm Bend.	No	5	
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84	Plastic or copper wire gauze fly screen glued to top of 150 mm pipe as directed on site.	No	5	
<b><u>Cast Iron waste or vent pipes and fittings</u></b>				
85	150 mm Pipe fixed to walls.	m	3	
<b><u>Extra For:</u></b>				
86	150 mm Bend.	No	2	
<b><u>Ventilators</u></b>				
87	240mm Polycarbonate ventilator with 150mm diametre throat fixed to top of 150mm vent pipe (pipe elsewhere measured)	No	5	
<b><u>Sanitary fittings</u></b>				
88	Atlas Plastics rotomoulded polyethylene Christy wash hand basin (code: 382AP) 570mm x 395mm wide, or equal approved, with 2 tapholes and 40mm waste outlet, plugged and screwed to the wall with galvanised screws and brackets.	No	3	
89	Atlas Plastics rotomoulded polyethylene 65 litre wash trough with galvanised brackets (Code: 371AP), size 535 x 415mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets.	No	1	
90	"Atlas Plastics (Code 223AP)" or other approved VIP 200 pit pedestal size 370 x 500mm high with flap fixed to floors with and including three 6 mm diameter x 50 mm long expansion bolts.	No	5	
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<u>Gratings, covers, etc</u>				
91	Cast iron double seal manhole cover and frame, size 450 x 600mm, in accordance with SABS 558, coated with an approved preservative solution before leaving manufacturer and bedded in 1:3 cement mortar and sealed in tallow.	No	5	
92	Lifting key for manhole cover	No	5	
<b><u>PAINTING</u></b>				
<b><u>ON PLASTERED SURFACES</u></b>				
<b><u>Prepare and apply one undercoat and paint with two coats premium quality pure acrylic PVA on:</u></b>				
93	On external walls	m2	18	
94	Interior walls.	m2	70	
<b><u>Prepare surface and apply one coat sealer, one universal undercoat and two coats epoxy enamel paint on:</u></b>				
<b><u>Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:</u></b>				
<b><u>ON FIBRE-CEMENT</u></b>				
<b><u>Prepare and apply two coats pure acrylic roof paint on:</u></b>				
95	Fascias and barge boards.	m2	12	
<b><u>ON WOOD</u></b>				
<b><u>Knot, prime, stop and apply one coat undercoat and two coats high gloss enamel paint on :</u></b>				
<b><u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u></b>				
96	Wooden frames and linings	m2	3	
97	Doors (all surfaces measured).	m2	10	
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	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>SITE CLEARANCE, BULK EARTHWORKS, ETC (PROVISIONAL)</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SITE CLEARANCE:</u></b>			
	<b><u>Site clearance etc:</u></b>			
1	Allow for clearing of site of all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc, level site to be built upon and carting away any debris to a site to be found by the contractor.	m2	1 164	
	<b><u>EXCAVATIONS</u></b>			
	<b><u>Excavation in earth</u></b>			
2	Excavate to cut in open face not exceeding 2m deep to reduce levels and deposit in spoil dump on site, for reuse as filling or carting away as necessary (carting away elsewhere measured)	m3	191	
3	Scarify in-situ of the bulk excavations bottoms to a depth of 150mm, and compact to 93% Modified AASHTO density at optimum moisture content	m2	382	
	<b><u>Extra over all excavations for carting away:</u></b>			
4	Cart away surplus excavated material	m3	180	
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	<b>Section No. 4</b>			
	<b>Bill No. 1</b>			
	<b>Site Clearance, Bulk Earthworks, Etc</b>			
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**EARTH FILLING, ETC.**

5	Selected filling from excavated material, compacted to form platforms in layers not exceeding 150mm thick to 98% Modified AASHTO density at optimum moisture content	m3	95
6	Imported filling supplied by the contractor, compacted to form platforms in layers not exceeding 150mm thick to 98% Modified AASHTO density at optimum moisture content	m3	115

**LANDSCAPPING**

Under no circumstances is the Contractor to begin spreading the top soil until permission to do so has been given by the Architect

As soon as possible after permission has been given, the top soil, which must be free of stones, is to be respread over all banks, except where turfing is specified, and for a width of 3 m around the perimeter of the plateaux on which buildings have been erected. Once the buildings have been erected and all paths and pavings have been laid, top soil is to be spread over the remaining prescribed areas

All top soil is to be finished to an even regular surface

**Topsoil, compost, lime and fertilizer**

7	Imported topsoil supplied by the contractor spread and levelled over the site to form 100mm thick layer	m3	130
8	Compost in plant beds, holes for trees, shrubs, etc	m3	20
9	Super phosphate granular form commercial fertilizer	kg	250

**Grassing, ground covers, etc**

10	Approved planted "Kikuyu" or other equally approved instant lawn	m2	464
11	Approved planted "Bufallo" instant lawn	m2	400

**Carried to Collection**

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**Section No. 4  
Bill No. 1  
Site Clearance, Bulk Earthworks, Etc  
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**Trees**

12 Allow the sum of R15000.00 (Fifteen Thousand Rand) for the supply, planting and establishment of trees to be measured and valued in terms of these Bills of Quantities.

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**Section No. 4  
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 Site Clearance, Bulk Earthworks, Etc  
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Site Clearance, Bulk Earthworks, Etc

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>THE FOLLOWING IN ROADS, PATHWAYS, APRONS AND RETAINING WALLS (PROVISIONAL)</u></b>			
	<b><u>NOTE:</u></b>			
	Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item			
	<b><u>EXCAVATION, ETC</u></b>			
	<b><u>Excavation in earth</u></b>			
1	Excavate to cut in open face not exceeding 2m deep to reduce levels and deposit in spoil dump on site, for reuse as filling or carting away as necessary (carting away elsewhere measured)	m3	118	
2	Scarify in-situ material to a depth of 150 mm and compact to 93% Modified AASTO dry density	m2	580	
	<b><u>Excavation in earth not exceeding 2m deep for:</u></b>			
3	Trenches	m3	70	
	<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>			
4	Soft rock.	m3	4	
5	Hard rock.	m3	2	
	<b>Carried to Collection</b>			R
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	<b>Roads, Walkways, Aprons, Retaining walls, Etc</b>			
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<b><u>Extra over all excavations for carting away:</u></b>				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	150	
<b><u>Risk of collapse of excavations:</u></b>				
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	126	
<b><u>Keeping excavations free of water:</u></b>				
8	Allow for keeping excavations free from mud and all water including subterranean sources.			Item
<b><u>EARTH FILLING, ETC.</u></b>				
<b><u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u></b>				
9	Backfilling to trenches, holes, etc.	m3	20	
10	Under floors, steps, pavings, etc.	m3	61	
<b><u>Filling with G7 Material supplied by the contractor compacted to 98% Mod AASHTO density:</u></b>				
11	Under floors, steps, pavings, behind retaining walls etc.	m3	803	
<b><u>Approved river sand filling supplied and carted on by the Contractor</u></b>				
12	50mm layer under pavers, etc to driveways	m2	292	
13	20mm layer under pavers, etc to walkways and ramps.	m2	180	
<b><u>SOIL POISONING</u></b>				
<b><u>"Hyvar X" Weedkiller mixed with water and applied at a rate of 100grams/m</u></b>				
14	Under paving etc	m2	536	
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<b>Roads, Walkways, Aprons, Retaining walls, Etc</b>				
<b>U1604 - CABANE JSS - COMPLETION</b>				

<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>			
<b><u>25 MPa/19mm concrete</u></b>			
15	Wall footings cast against excavated surfaces	m3	101
16	Walkways	m3	13
17	Ramps	m3	17
18	Concrete aprons	m3	4
19	Steps	m3	2
<b><u>30 MPa/19mm concrete</u></b>			
20	Roads	m3	13
<b><u>Sundries</u></b>			
21	Floating off smooth tops of surface beds with a wood float.	m2	348
<b><u>Concrete tests</u></b>			
22	Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional).	Sets	5
<b><u>Formwork</u></b>			
23	Edges, risers, ends and reveals not exceeding 300 mm high.	m	120
<b><u>PRECAST CONCRETE, ETC</u></b>			
<b><u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u></b>			
24	Kerb (SABS 927 fig 3) 150 x 300mm high with 150 x 150 x 300mm Class 15/19 unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	185
<b>Carried to Collection</b>			R
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<b>Roads, Walkways, Aprons, Retaining walls, Etc</b>			
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25	Ditto, but circular on plan to radius not exceeding 4m	m	14
<b><u>MASONRY</u></b>			
<b><u>14MPa clay stock bricks (NFP), overall size 220 x 140 x 70mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class II mortar.</u></b>			
26	One brick walls.	m2	39
27	Ditto but in foundations	m2	47
28	270mm Hollow walls of two half brick skins with cavities filled in with and including 15MPa/19mm concrete	m2	126
29	Ditto but in foundations	m2	5
<b><u>FACE BRICKWORK</u></b>			
<b><u>Selected 30-40MPa FBA clay face brick, size 222 x 106 x 73mm, manufactured in accordance with 227:2007, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u></b>			
30	Extra over brickwork for face brickwork externally.	m2	34
<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>			
31	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	78
<b><u>Brickwork reinforcement:</u></b>			
32	75mm Wide reinforcement built in horizontally	m	100
33	150mm Wide reinforcement built in horizontally.	m	250

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Section No. 4  
 Bill No. 2  
 Roads, Walkways, Aprons, Retaining walls, Etc  
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	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on 20mm (thickness after final compaction) clean river sand (preparation of ground of filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
34	<b>200 x 100 x 80mm</b> thick, Grey coloured <b>Interlock Weathered paving blocks</b> , laid in herringbone pattern in accordance with SANS 1200 MJ and Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I.	m2	292	
35	60mm Thick SABS approved precast interlocking pavers	m2	109	
36	Fair circular cutting	m	15	
	<b><u>TERRAFORCE RETAINING WALL</u></b>			
37	Supply and install strictly in accordance with the manufacturers specifications, segmental retaining walls with interlocking reversible "TERRAFORCE 425" type blocks or similar approved.			
	All necessary work shall be carried out complete with foundations, drainage and filling of blocks as detailed by the engineer.	m2	455	
38	RockGrid PC/100 at 2m lengths behind retaining walls	m2	1 337	
	<b><u>BALUSTRADES</u></b>			
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	<b>Roads, Walkways, Aprons, Retaining walls, Etc</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

<b><u>The following in galvanised steel balustrades</u></b>			
39	1000mm High Balustrades, formed of 50mm diameter galvanised steel hand rail with 20mm diameter bottom and top galvanised steel tubes equally spaced and 10mm in-fill bars, all equally spaced at 100mm centres, supported and welded onto 50mm diameter uprights with 200X100mm base plates bolted onto brickwork or concrete at 1300mm centres.	m	120
<b><u>PLUMBING</u></b>			
<b><u>Bidum</u></b>			
40	Bidim U24 Geotextile wrapped around and including 75m diameter perforated uPVC pipe.	m	221
<b><u>WASTE DRUM</u></b>			
<b><u>Suspended waste drum:</u></b>			
41	Suspended waste drum unit to municipal solid waste specifications consisting of two 100mm diameter creosote impregnated posts planted in 600 x 600 x 800mm deep holes including filling with class B concrete and suspending 220 litre iron drum complete with pivoting bolts, including removing top of drum and drilling holes in bottom.	No	1
<b>Carried to Collection</b>			
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Roads, Walkways, Aprons, Retaining walls, Etc

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>COVERED PLAY AREA , SAND PIT, ETC (PROVISIONAL)</u></b>			
	<b><u>EXCAVATION, ETC</u></b>			
	<b><u>Site clearance etc:</u></b>			
1	Allow for clearing site including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling.	m2	72	
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
2	Trenches.	m3	15	
3	Reduced levels under floors.	m3	21	
	<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>			
4	Soft rock.	m3	1	
5	Hard rock.	m3	1	
	<b><u>Extra over all excavations for carting away:</u></b>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	21	
	<b><u>Risk of collapse of excavations:</u></b>			
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	83	
	<b><u>Keeping excavations free of water:</u></b>			
8	Keeping excavations free of water.	Item		
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	<b>Bill No. 3</b>			
	<b>Covered Play Area &amp; Sand Pit</b>			
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<b><u>EARTH FILLING, ETC.</u></b>				
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density:</u></b>				
9	Under floors, steps, pavings, etc.	m3	5	
<b><u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>				
10	Under floors, steps, pavings, etc.	m3	5	
<b><u>Compaction of surfaces:</u></b>				
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	70	
<b><u>Prescribed density tests on filling:</u></b>				
<b><u>SOIL POISONING</u></b>				
<b><u>Soil insecticide</u></b>				
12	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	70	
<b><u>PRECAST CONCRETE, ETC</u></b>				
<b><u>Precast concrete pipes</u></b>				
13	600mm Diameter concrete tunnel 1000mm long set on ground	No	2	
<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>				
<b><u>25MPa/19mm Concrete :</u></b>				
14	25MPa/19mm Concrete in seating	m3	0,4	
<b>Carried to Collection</b>				R
<b>Section No. 4</b>				
<b>Bill No. 3</b>				
<b>Covered Play Area &amp; Sand Pit</b>				
<b>U1604 - CABANE JSS - COMPLETION</b>				

<b><u>30MPa/19mm concrete :</u></b>				
15	30MPa/19mm Reinforced concrete floors including beams etc., cast on waterproofing.	m3	23	
<b><u>SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>				
16	Surface beds, slabs, etc	m2	2	
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
<b><u>High tensile steel reinforcement</u></b>				
17	12 mm Diameter bars	kg	500	
18	10mm Diameter bars	kg	100	
<b><u>Fabric reinforcement</u></b>				
19	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	74	
<b><u>MASONRY</u></b>				
<b><u>14MPa clay stock bricks (NFP), overall size 220 x 140 x 70mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class II mortar.</u></b>				
20	One brick walls.	m2	5	
<b><u>Brickwork reinforcement:</u></b>				
21	150mm Wide reinforcement built in horizontally.	m	24	
<b><u>WATERPROOFING</u></b>				
<b>Carried to Collection</b>				R
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	<b><u>One layer of 250 micron "Gunplas USB Green or Similar approved" waterproof sheeting sealed at laps with approved "Superstick" tape:</u></b>			
22	Damp proof membrane laid on filling under solid floors, lapped 100mm and sealed at all joinings (Measured nett)	m2	74	
	<b><u>One layer of 375 micron "Gunplas USB Green or Similar approved" Brickgrip DPC waterproof sheeting below walls, sills, etc:</u></b>			
23	In walls laid horizontally and built into walls or stepped up cavity lapped 150mm at all angles and passings (Measured nett)	m2	3	
	<b><u>ROOF COVERINGS ETC.</u></b>			
	<b><u>Global Roofing Solutions (OR SIMILAR APPROVED) 0,8mm thick 762mm cover, Corrugated profile Z200 spelter ISO300 galvanised steel roof sheeting with Chromadek finish, fixed to steel purlins all in accordance with the manufacturer's specifications.</u></b>			
24	Roof covering with pitch not exceeding 17 degrees	m2	35	
25	Ridge capping 460mm girth.	m	18	
26	Serrated ridge closers	m	36	
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>Wrought meranti:</u></b>			
27	Slatted seats of 300 x 300mm attached to concrete or brickwork.	m2	9	
	<b><u>JUNGLE GYM</u></b>			
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
	<b>Bill No. 3</b>			
	<b>Covered Play Area &amp; Sand Pit</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

	<p><b><u>Min 100/125mm poles and stays are to be set in concrete min 600mm deep and with bottom ends of poles protruding through concrete base to allow water to drain. 10mm Stainless steel threaded bar stainless steel flat washers and nuts are to be used to assemble the structure.</u></b></p>			
28	<p>Timber Jungle Gym (tanalith treated) with raised platform, size 1 800 x 1 800mm with 95% UV protected shadecloth roof with wooden hand railings on three sides, with nylon cargo net, with 3 000mm glass fibre slide fixed to platform, with two tyre swings secured with suitable thickness galvanised chain and eye bolt system, with 3 600mm long suspension bridge, installed complete by an approved manufacturer.</p>	No	1	
<p><b><u>STRUCTURAL STEELWORK</u></b></p>				
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>				
<p><b>Descriptions</b></p>				
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>				
<p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p>				
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>				
<p>Descriptions of I- beams, lipped channel purlins etc shall be deemed to include galvanising, painting before delivery and assembling.</p>				
<p><b><u>ROOF STRUCTURE</u></b></p>				
<p><b><u>Galvanised purlins, girts, bracing, etc.:</u></b></p>				
29	<p>75 x 50 x 20 x 2mm Thick lipped channel purlins.</p>	t	1	
<p style="text-align: right;"><b>Carried to Collection</b></p>				R
<p><b>Section No. 4</b>  <b>Bill No. 3</b>  <b>Covered Play Area &amp; Sand Pit</b>  <b>U1604 - CABANE JSS - COMPLETION</b></p>				

30	Angle section bracing, including connections.	t	0,30	
	<b><u>Galvanised beams with flat connection plates and angle section cleats:</u></b>			
31	180 x 90mm x 22,2kg/m I-section beams.	t	1	
	<b><u>Galvanised hollow sections, with flat base plates, etc.:</u></b>			
32	200 x 200 x 6mm square hollow sections	t	0,50	
	<b><u>Bolts:</u></b>			
33	M16 Grade 8.8 holding down bolts.	No	16	
	<b><u>METALWORK</u></b>			
	<b><u>Mild Steel</u></b>			
34	Screw bolts with heads, nuts and washers (fixing elsewhere measured).	kg	1	
	<b><u>PLASTERING</u></b>			
	<b><u>Untinted granolithic finish to concrete</u></b>			
35	Average 40 mm finish to horizontal surfaces to falls.	m2	74	
	<b><u>RAINWATER DISPOSAL (PROVISIONAL):</u></b>			
	<b><u>Watertite (OR SIMILAR APPROVED) seamless aluminium gutter, coated internally and externally with ColourTech G4 (OR SIMILAR APPROVED) in colour Marble White</u></b>			
36	125 x 100mm Eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	23	
37	Extra over eaves gutter for 90 degrees angle.	No	4	
38	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	2	
	<b>Carried to Collection</b>			R
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39	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	8	
40	Extra over rainwater pipe for bend.	No	6	
41	Extra over rainwater pipe for shoe.	No	2	
<b>Carried to Collection</b>				R
<b>Section No. 4</b> <b>Bill No. 3</b> <b>Covered Play Area &amp; Sand Pit</b> <b>U1604 - CABANE JSS - COMPLETION</b>				

Section No. 4

Bill No. 3

Covered Play Area & Sand Pit

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Bill No. 3

Covered Play Area & Sand Pit

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>STORMWATER DRAINAGE (EXTERNAL)</u></b>			
	<b><u>(PROVISIONAL)</u></b>			
	<b><u>Stormwater Cut-Off Drain</u></b>			
1	Forming cut-off surface drain with cut average 500mm deep with and including nominal stone size 175to225mm on Geotextile(AG 200 Non-Woven), on 200mm thick clay lining from excavations compacted 95%Mod AASHTO density on face of excavation, with average 500mm high berm to one side, all compacted to 93% Modified AASHTO density, including finishing to slopes, etc.	m	60	
	<b><u>Precast or in-situ concrete (Class 20) open stormwater channels with V-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths ( not exceeding 2500mm), and reinforced as necessary for handling if precast , including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar.</u></b>			
2	Channel size 900 x 75mm thick overall with 860 x 60mm deep v-shaped waterway.	m	34	
3	Extra over for angles	No	8	
4	Extra over for T-intersection	No	2	
5	Extra over for forming 100mm thick spreader fanning out to 1500mm width at furthest end with seven (7No) concrete bricks cast in as brick-on-end diffusers in three rows including working off concrete to a smooth finish.	No	2	
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
	<b>Bill No. 4</b>			
	<b>Stomwater Drainage</b>			
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6	Channel size 600 x 75mm thick overall with 560 x 60mm deep v-shaped waterway.	m	10	
7	Extra over for angles	No	2	
8	Extra over for T-intersection	No	1	
9	Extra over for forming 100mm thick spreader fanning out to 1200mm width at furthest end with seven (7No) concrete bricks cast in as brick-on-end diffusers in three rows including working off concrete to a smooth finish.	No	1	
<b><u>Concrete tests</u></b>				
10	Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional).	Sets	2	
<b>Carried to Collection</b>				R
<b>Section No. 4</b> <b>Bill No. 4</b> <b>Stomwater Drainage</b> <b>U1604 - CABANE JSS - COMPLETION</b>				

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Stomwater Drainage

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Bill No. 4

Stomwater Drainage

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>SOIL DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>NOTE:</u></b>			
	Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item			
	For Preambles see "Specification of materials and methods to be used - PW 371"			
	-.....			
	<b><u>Polyvinyl chloride (unplasticised) (U PVC) piping</u></b>			
1	160 mm Pipes fixed vertically in ramp (no excavations)	m	5	
2	160 mm Pipe and excavations not exceeding 1m deep	m	23	
3	160 mm Pipe and excavations exceeding 1m and not exceeding 2m deep	m	62	
	<b><u>Extra over U PVC pipes for fittings</u></b>			
4	160 mm Bend	No	2	
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
	<b>Bill No. 5</b>			
	<b>Soil Drainage</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

<u>Manholes</u>				
5	Manhole size 600 x 900 mm x not exceeding 1m deep internally to invert level formed of hard burnt one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 100 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) kerb on top, rebated for and fitted with and including cast iron double seal cover and frame type 8A in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
6	Ditto, but exceeding 1m and not exceeding 2m deep to invert	No	2	
7	Extra over excavations in pickable material for drain trenches, inspection chambers, etc., for excavations in soft rock	m3	5	
8	Ditto, in hard rock	m3	2	
<u>Sundries</u>				
9	Mass concrete Class 15 MPa encasement around horizontal raking or vertical drainpipes including all necessary excavations, formwork, etc.	m3	1	
10	Encase 160 mm vertical PVC bend in concrete (Class 15 MPa)	No	3	
11	100 mm Cast iron straight or skew ABC cleaning eye with removable plate cover jointed to 100 mm U PVC pipe and set in and including concrete Class 15 MPa around with exposed surface trowelled smooth	No	1	
12	Precast concrete (Class 15 MPa) block size 300 x 300 x 75 mm thick finished smooth on top and four edges with letters "I.E." formed in top, set in ground over top of inspection fitting	No	1	
<b>Carried to Collection</b>				R
<b>Section No. 4</b>				
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<b>Soil Drainage</b>				
<b>U1604 - CABANE JSS - COMPLETION</b>				

<b><u>The following in Sand, Oil &amp; Grease Trap including necessary planking and strutting and keeping excavations dry</u></b>				
13	Clear site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc	m2	7	
14	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed	m3	10	
15	Extra over excavations in earth for excavations in soft rock	m3	2	
16	Extra over excavations in earth for excavation in hard rock	m3	1	
17	Allow for the risk of collapse to sides of excavations exceeding 1.5 m deep	m2	13	
18	Allow for keeping excavations free of water		Item	
19	Removal of seepage and other water from subterranean sources from excavations	Litres	1 000	
20	Backfilling with material obtained from the excavations and / or prescribed stock piles on site compacted in layers not exceeding 150 mm thick to 90% Modified AASHTO density at optimum moisture content, including shaping to falls as required, all necessary hand compacting, etc	m3	3	
21	Cement concrete (15MPa) in blinding to bottom of tank	m3	0,4	
22	Reinforced concrete (30MPa) in bottom, slab, etc	m3	2	
23	Strike off and cure to top surface of concrete	m2	5	
24	General formwork to soffit of slab including removal through opening size 450 x 650 mm	m2	5	
25	Formwork to edge of slab not exceeding 150 mm high	m	10	
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26	Box for and form rebated opening size 450 x 450 mm through 170 mm slab for manhole and frame (elsewhere)	No	2	
27	Box for and form rebated opening size 275 x 275mm through 170 mm slab for cover and frame (elsewhere)	No	1	
28	Mesh ref 245 reinforcement	m2	10	
29	Mesh ref 617 reinforcement	m2	5	
30	One brick wall in 3:1 cement mortar	m2	14	
31	Half brick wall in 3:1 cement mortar	m2	2	
32	Form opening size 250 x 250 mm through one brick wall and render all round in cement plaster	No	4	
33	Standard cast iron type two piece double seal manhole cover and frame Type 8A to opening size 450 x 450 mm, the frame bedded in 3:1 cement mortar and cover in tallow	No	2	
34	Standard cast iron type two piece double seal manhole cover and frame Type 8A to opening size 275 x 275 mm, the frame bedded in 3:1 cement mortar and cover in tallow	No	1	
35	Render in 3:1 cement plaster with Blue Circle water proofing compound added on to vertical surfaces	m2	16	
36	160 mm Diameter PVC pipe	m	2	
37	Extra for 160mm junction	No	3	
38	Hole through one brick side of chamber for large pipe and make good	No	4	

**The following in french drain soakaway**

**Carried to Collection**

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<b><u>Site clearance etc:</u></b>				
39	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	24	
<b><u>Excavation in earth not exceeding 2m deep:</u></b>				
40	Drain soakaway.	m3	24	
<b><u>Extra over bulk excavation in earth for excavation in:</u></b>				
41	Soft rock.	m3	2	
42	Hard rock.	m3	1	
<b><u>Extra over all excavations for carting away:</u></b>				
43	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	10	
<b><u>Risk of collapse of excavations:</u></b>				
44	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	44	
<b><u>Keeping excavations free of water:</u></b>				
45	Keeping excavations free from mud and all water including subterranean sources.		Item	
<b><u>Topsoil:</u></b>				
46	Topsoil carted on top of Bidum (elsewhere) spread and levelled.	m3	10	
<b><u>Earth filling supplied by the contractor and lightly compact:</u></b>				
47	Imported crusher dust or courses river sand.	m3	4	
48	Selected 38mm graded stone in drain soakaway.	m3	5	
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	<u>Bidum</u>			
49	Kaymat U24 laid in french drain soakaway.	m2	40	
	<u>Drainage:</u>			
50	110mm Diameter perforated piping laid in drain soakaway.	m	20	
	<u>Extra over perforated piping:</u>			
51	110mm Bend.	No	6	
	<u>Testing:</u>			
52	Allow for testing all drains, and water supplies to the satisfaction of the Principal Agent. All defective work is to be taken out and replaced at the Contractor's expense.			
			Item	
	<b>Carried to Collection</b>			R
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>WATER SUPPLIES (PROVISIONAL)</u></b>			
	<b><u>WATER SUPPLY</u></b>			
	<b><u>GALVANISED MILD STEEL WATER SUPPLY PIPES</u></b>			
1	32mm Galvanised mild steel pipe and fixing to tank stand	m	65	
	<b><u>Extra over galvanised mild steel water supply pipes for fittings</u></b>			
2	32mm Bends	No	6	
3	32mm Tee	No	7	
4	32mm Straight connector	No	8	
5	32mm Union connector	No	6	
6	32 to 20mm reducer	No	6	
	<b><u>uPVC Class 6 water pipes, including class B bedding according to SABS 1200 LB and compacting backfilling to 93% modified AASHTO</u></b>			
7	50mm pipe and excavations not exceeding 1m deep	m	70	
	<b><u>Extra over 50mm uPVC piping for high pressure fittings</u></b>			
8	Bend/Elbow	No	10	
9	Tee/Reducing tee	No	10	
10	Male/female adaptor	No	5	
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
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	<b>Water Supplies</b>			
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11	25mm brass fullway gate valve including flanged connections to uPVC pipe	No	5	
12	50mm brass fullway gate valve including flanged connections to uPVC pipe	No	5	
<b><u>STOPCOCK BOXES, ETC.</u></b>				
13	Excavate in earth for and build stop cock box size 225 x 225 x 300mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including Class C mass concrete surround size 75mm wide x 100mm deep all round	No	8	
<b><u>HDPE Class 16 water pipes</u></b>				
14	32mm Pipes laid in and including trenches 900mm deep	m	280	
15	63mm Pipes laid in and including trenches 900mm deep	m	290	
<b><u>Extra over HDPE pipes for "Plasson" or other approved fittings</u></b>				
16	20mm Fittings	No	8	
17	25mm Fittings	No	5	
18	32mm Nipple	No	5	
19	32mm Bend	No	15	
20	32mm Tee	No	15	
21	32mm Reducing Tee	No	10	
<b><u>Brass Fittings</u></b>				
22	32mm Stopcock with joint to steel as "Cobra 121"	No	5	
23	40mm Non-return valve with joints to steel	No	5	
<b>Carried to Collection</b>				R
<b>Section No. 4</b> <b>Bill No. 6</b> <b>Water Supplies</b> <b>U1604 - CABANE JSS - COMPLETION</b>				

<b><u>Cast Brass</u></b>				
24	32mm Fullway gate valve as Cobra Watertech 1001/125 with joints to mild steel	No	5	
25	Stewards & Lloyds "No 3" Double action hand pump with joints to mild steel piping and fixing to brick wall with purpose made galvanised mild steel bracket bolted through 230mm thick wall(Refer to THM Engineers drawing No 0202/04 included in the back of this document)	No	5	
<b><u>Valve box chambers, etc.</u></b>				
26	Type 11B cast iron stopcock box hinged cover and frame, including 220 x 220 x 600mm deep brick chamber below, finished 50mm above ground level	No	8	
<b><u>Water Storage Tanks and Stands</u></b>				
<b><u>EXCAVATION, ETC</u></b>				
<b><u>Site clearance etc:</u></b>				
27	Allow for clearing site including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling.	m2	8	
<b><u>Excavation in earth not exceeding 2m deep:</u></b>				
28	Surface trenches.	m3	4	
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>				
29	Soft rock.	m3	1	
30	Hard rock.	m3	1	
<b><u>Extra over all excavations for carting away:</u></b>				
31	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	2	
<b>Carried to Collection</b>				R
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<b>Water Supplies</b>				
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	<b><u>Risk of collapse of excavations:</u></b>				
32	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	8		
	<b><u>Keeping excavations free of water:</u></b>				
33	Keeping excavations free of water.		Item		
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density:</u></b>				
34	Backfilling to trenches, holes, etc.	m3	1		
	<b><u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>				
35	Under floors, steps, pavings, etc.	m3	2		
	<b><u>Compaction of surfaces:</u></b>				
36	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	8		
	<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>				
	<b><u>15MPa/19mm concrete:</u></b>				
37	Cement concrete (15MPa) in blinding to bottom of tank	m3	0,4		
	<b><u>25MPa/19mm concrete:</u></b>				
38	Reinforced concrete (30MPa) in bottom, slab, etc	m3	3		
	<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
39	Apron slabs, paving, etc to slight falls.	m2	1		
	<b>Carried to Collection</b>				R
	<b>Section No. 4</b>				
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	<b>Water Supplies</b>				
	<b>U1604 - CABANE JSS - COMPLETION</b>				

	<b><u>Concrete tests</u></b>			
40	Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional).	Sets	2	
	<b><u>FORMWORK</u></b>			
	<b><u>Rough Formwork to Sides:</u></b>			
41	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	16	
	<b><u>STEEL REINFORCEMENT</u></b>			
	<b><u>Fabric reinforcement:</u></b>			
42	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	24	
	<b><u>MASONRY</u></b>			
	<b><u>14MPa clay stock bricks (NFP), overall size 220 x 140 x 70mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class II mortar.</u></b>			
43	270mm Hollow walls of two half brick skins with cavities filled in with and including 15MPa/19mm concrete and ref 193 fabric reinforcement.	m2	18	
	<b><u>FACE BRICKWORK</u></b>			
	<b><u>Selected 30-40MPa FBA clay face brick, size 222 x 106 x 73mm, manufactured in accordance with 227:2007, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u></b>			
44	Extra over brickwork for face brickwork externally.	m2	14	
	<b>Carried to Collection</b>			R
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**Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:**

**Brickwork reinforcement:**

45 150mm Wide reinforcement built in horizontally. m 128

**Galvanised hoop iron cramps, ties, etc:**

46 30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters). No 8

**WATERPROOFING**

**One layer of 250 micron 'GUNPLAS USB GREEN or Similar approved ' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':**

47 Under surface beds. m2 8

**IRONMONGERY**

**Locks**

48 30mm Approved brass padlock No 2

**PLUMBING**

**Rainwater tanks:**

49 5000 Litre polyethylene rotomoulded horizontal water storage tank complete with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete. (Note: tanks to be filled with water before Practical Completion). No 2

50 Hole through top of tank lid for 100mm diameter pipe. No 2

**The following in Elevated Tank Stand**

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<u>All Trades</u>					
51	1000 x 1000 x 350mm High 30MPa/19mm stone concrete base and 300 x 300 x 810mm high 30MPa/19mm stone stub column, including all necessary excavations, formwork, backfilling, etc.	No	4		
52	16mm Diameter mild steel L-shaped holding down bolt 500mm girth with one end threaded and the other end cast into top of stub column (elsewhere measured)	No	16		
53	Angle section legs, rails, braces, etc.	t	1,00		
54	Bolts,nuts, washers, etc	kg	5		
<u>High level water tanks:</u>					
55	10,000 Litre "MARTIN NEL" or other equally approved PVC cylindrical tank, light beige standard colour, with lettering complete with lid and fixed with 12mm chains fitted into hose pipes to hooks, welded to steel stand as per the Manufacturer's instructions (stand elsewhere measured)	No	4		
<u>BUILDERS WORK TO PLUMBING INSTALLATION</u>					
<u>Tank bases, etc</u>					
56	Excavate in earth for surface trenches not exceeding 2m deep	m3	4		
57	Allow for risk of collapse not exceeding 1.5m	m2	4		
58	Imported filling to base well compacted to 95% Mod AASHTO in 150mm layers	m3	3		
59	Cement concrete (30MPa) in Bases	m3	1		
60	Reinforced concrete (30MPa) in columns	m3	0,2		
<b>Carried to Collection</b>					R
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<b>Bill No. 6</b>					
<b>Water Supplies</b>					
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**THE FOLLOWING IN RAINWATER  
COLLECTOR TANK INCLUDING NECESSARY  
PLANKING AND STRUTTING AND KEEPING  
EXCAVATIONS DRY.**

61	Clear site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc	m2	30
62	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed	m3	18
63	Ditto in earth exceeding 2 m and not exceeding 4 m deep ditto	m3	6
64	Back excavations for working space for building brick lining, 500mm away from excavated face	m2	35
65	Extra over excavations in earth for excavations in soft rock	m3	18
66	Extra over excavations in earth for excavation in hard rock	m3	12
67	Allow for the risk of collapse to sides of excavations exceeding 1.5 m deep	m2	55
68	Allow for keeping excavations free of water		Item
69	Backfilling with imported fill compacted in layers not exceeding 150 mm thick to 90% Modified AASHTO density at optimum moisture content, including shaping to falls as required, all necessary hand compacting, etc	m3	45
70	120mm Reinforced concrete (30MPa) in bottom, slab, etc	m3	2
71	Reinforced concrete (30MPa) slab,walls, etc	m3	11
72	Strike off and cure to top surface of concrete	m2	40

**Carried to Collection**

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73	General formwork to soffit of slab including removal through opening size 700 x 700 mm	m2	20	
74	Smooth formwork to sides of walls.	m2	35	
75	Formwork to edge of slab not exceeding 300 mm high	m	14	
76	Box for and form rebated opening size 550mm diameter through 200 mm slab for manhole and frame (elsewhere)	No	2	
77	Boxing in formwork to form recess 400 x 400 x 100mm recesses in side	m	4	
78	Ditto but for opening size 375mm diametre through 230 mm wall for concrete pipe (elsewhere)	No	2	
79	12 mm Diameter bars	kg	500	
80	8mm Diameter bars	kg	500	
81	Render in 3:1 cement plaster with Corprox masonry water proofing compound added on vertical surfaces	m2	35	
	<b><u>High tensile steel reinforcement</u></b>			
82	Steel rod reinforcement of varying diameters to bottom, walls and slab	t	2,00	
	<b><u>Fabric reinforcement</u></b>			
83	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	12	
84	Mesh ref 193 reinforcement	m2	24	
	<b><u>Gratings, covers and frames:</u></b>			
85	400 x 600mm x 99,5kg Heavy duty cast iron manhole cover and frame.	No	2	
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
	<b>Bill No. 6</b>			
	<b>Water Supplies</b>			
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**Testing**

86 Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's expense

Item

**Carried to Collection**

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 Bill No. 6  
 Water Supplies  
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Section No. 4

Bill No. 6

Water Supplies

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Section No. 4

Bill No. 6

Water Supplies

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>FENCING (PROVISIONAL)</u></b>			
	<b><u>Clearing of site:</u></b>			
1	Allow for clearing site for the width of 1,000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	157	
	<b><u>Galvanised posts:</u></b>			
2	60mm Diameter galvanised steel intermediate fencing post, 2,700mm long fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 3mm flange plate welded to bottom and embedded in 300 x 300 x 600mm mass concrete (15 MPa) base including all necessary excavation, disposal, etc	No	47	
3	100mm Ditto as end post 2 700mm long, fitted with one 60mm diameter galvanised steel stay set raking and with top end flattened and twice bolted through post with M8 galvanised bolts, with post and stay both embedded in mass concrete (15 MPa) bases including all necessary excavation, disposal, etc.	No	4	
4	100mm Ditto as corner post 2 700mm long, fitted with two 60mm diameter galvanised steel stays set raking and with top end flattened and twice bolted through post with M8 galvanised bolts, with post and stays both embedded in mass concrete (15 MPa) bases including all necessary excavation, disposal, etc.	No	3	
5	100mm Ditto as straining post 2 700mm long, fitted with two 60mm diameter galvanised steel stays set raking and with top end flattened and twice bolted through post with M8 galvanised bolts, with post and stays both embedded in mass concrete (15 MPa) bases including all necessary excavation, disposal,	No	3	
	<b>Carried to Collection</b>			R
	<b>Section No. 4</b>			
	<b>Bill No. 7</b>			
	<b>Fencing</b>			
	<b>U1604 - CABANE JSS - COMPLETION</b>			

6	150mm Diameter gate post fitted with one 60mm diameter galvanised steel raking stay, with post and stay both embedded in 400 x 400 x 600mm mass concrete (15 MPa) bases (Provisional).	No	2		
<b><u>Fencing:</u></b>					
7	Fencing formed of 50 x 50 x 2.5mm diameter galvanised weldmesh 1,800m high with vertical wires facing outwards secured with "Howgring" clips or 1.6mm galvanised binding wire at 300 mm centres to top and bottom straining wires and 500 mm centres to four intermediate straining wires (straining wires elsewhere measured) including holes through posts.	m	157		
8	Four strands of 4mm galvanised straining wires secured to fencing posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns and the other end to straining bolts (elsewhere measured).	m	157		
<b><u>Sundries:</u></b>					
9	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers, including hole through post.	No	12		
<b><u>GALVANIZED GATES</u></b>					
<b><u>Hot Dipped Galvanised Steel Gates:</u></b>					
10	Security gate size 800 x 1800mm high formed of 60 x 40 x 2mm hollow square section frame, with one 40 x 6mm horizontal support with 19mm holes drilled for and including six 19mm diameter vertical rods, the whole gate fitted inside a 40 x 60 x 2mm gate surround, with three 25mm diameter x 80mm long pin hinges bolted to 150mm Steel gate Post(Elsewhere measured) complete with two 55 x 40 x 8mm padlock plates for locking and door hook.	No	1		
<b>Carried to Collection</b>					R
<b>Section No. 4</b>					
<b>Bill No. 7</b>					
<b>Fencing</b>					
<b>U1604 - CABANE JSS - COMPLETION</b>					

Section No. 4

Bill No. 7

Fencing

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Section No. 4

Bill No. 7

Fencing

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Bill No	Section No. 4	Page No	Amount
	Section 4 : External Works		
	<u>SECTION SUMMARY - Section 4 : External Works</u>		
1	Site Clearance, Bulk Earthworks, Etc	129	
2	Roads, Walkways, Aprons, Retaining walls, Etc	136	
3	Covered Play Area & Sand Pit	144	
4	Stomwater Drainage	147	
5	Soil Drainage	154	
6	Water Supplies	165	
7	Fencing	168	
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Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO 1</u></b>			
	<b><u>PROVISIONAL SUMS ETC</u></b>			
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BUDGETARY ALLOWANCES</u></b>			
1	Allow an amount of R65 000,00 (Sixty Five Thousand Rand) for Removal of existing work at the instruction of the Principal Agent.	Item		65 000,00
	<b><u>DIRECT CONTRACT</u></b>			
	<b><u>FURNITURE</u></b>			
2	Provide the sum of R65 000,00 (Sixty Five Thousand Rand) for Furniture to be executed by the client.	Item		65 000,00
3	Allow for general attendance		%	
4	Allow for profit if required		%	
	<b>Carried to Final Summary</b>		R	
	<b>Section No. 5</b> <b>Bill No. 1</b> <b>PROVISIONAL SUMS</b> <b>U1604 - CABANE JSS - COMPLETION</b>			

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Section 1 : Preliminaries	52		
2	Section 2 : Building Works	110		
3	Section 3 : Pit Toilets	125		
4	Section 4 : External Works	169		
5	Section 5: Provisional Sums	170		
<b>Sub Total</b>			R	
<b><u>ELECTRICAL WORK INSTALLATION</u></b>				
Add : Sub-Total (Excluding VAT) for Electrical Installation from PART B		Item		
<b>Sub Total</b>			R	
<b><u>ESCALATION</u></b>				
Provide a sum of R230 000,00 (Two Hundred and Thirty Thousand Rands) only for contract price adjustment provision as per Haylett Formula		Item		230 000 00
<b><u>CONTINGENCIES</u></b>				
Provide a sum of R160 000,00 (One Hundred and Sixty Thousand Rand) only for Contingencies to be used in whole or part, to be adjusted as required		Item		160 000 00
<b>Sub Total</b>			R	
Value Added Tax			R	
<b>Carried to Form of Tender</b>			R	
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