

Item No	Quantity	Rate	Amount
<b><u>SECTION 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b>			
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"			
<b><u>PRELIMINARIES</u></b>			
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"			
<b><u>PRICING OF PRELIMINARIES</u></b>			
Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities			
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**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

## **OBJECTIVE AND PREPARATION**

### **2 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

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3	<p><b>A3.0 DOCUMENTS</b></p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The <b>contractor</b> shall supply and keep a copy of the <b>JBCC</b> Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the <b>site</b>, to which the <b>employer, principal agent</b> and <b>agents</b> shall have access at all times</p> <p>Clause 3.10 is amended by replacing the second reference to "<b>principal agent</b>" with the word "<b>employer</b>"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p><b>A4.0 DESIGN RESPONSIBILITY</b></p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p><b>A5.0 EMPLOYER'S AGENTS</b></p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
6	<p><b>A6.0 SITE REPRESENTATIVE</b></p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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7	<p><b>A7.0 COMPLIANCE WITH REGULATIONS</b></p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the <b>bills of quantities / lump sum document</b> for the <b>contractor</b> to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
8	<p><b>A8.0 WORKS RISK</b></p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
9	<p><b>A9.0 INDEMNITIES</b></p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
10	<p><b>A10.0 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>			
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- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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

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

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- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

**10.7 High risk insurance**

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by 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

**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

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	<p><b>10.7.4</b> The <b>employer</b> shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the <b>contractor's</b> 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 <b>contractor</b> or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the <b>employer</b> and the <b>contractor</b> and for this purpose all these contracts shall be considered one indivisible whole</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
11	<p><b>A11.0 LIABILITY INSURANCES</b></p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
12	<p><b>A12.0 EFFECTING INSURANCES</b></p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
13	<p><b>A13.0 No clause</b></p>	N/A		
14	<p><b>A14.0 SECURITY</b></p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a <b>contract sum</b> up to R1 million, the <b>security</b> to be provided by the <b>contractor</b> to the <b>employer</b> will be a payment reduction of five per cent (5%) of the value certified in the <b>payment certificate</b> (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p>			
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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**

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**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

### **EXECUTION**

#### **15 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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20	<p><b>A20.0 NOMINATED SUBCONTRACTORS</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 <b>nominated subcontractors</b> executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
21	<p><b>A21.0 SELECTED SUBCONTRACTORS</b></p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
22	<p><b>A22.0 EMPLOYER'S DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p><b>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b><u>COMPLETION</u></b></p>	Item		
24	<p><b>A24.0 PRACTICAL COMPLETION</b></p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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25	<b>A25.0 WORKS COMPLETION</b>  Clause 25.0  Fixed: _____ Value related: _____ Time related: _____	Item		
26	<b>A26.0 FINAL COMPLETION</b>  Clause 26.0  Clause 26.1.2 is amended by inserting "#" next to 26.1.2  Fixed: _____ Value related: _____ Time related: _____	Item		
27	<b>A27.0 LATENT DEFECTS LIABILITY PERIOD</b>  Clause 27.0  Fixed: _____ Value related: _____ Time related: _____	Item		
28	<b>A28.0 SECTIONAL COMPLETION</b>  Clause 28.0  Fixed: _____ Value related: _____ Time related: _____	Item		
29	<b>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</b>  Clause 29.0  Clause 29.2.5 is amended by replacing it with:  No clause  Fixed: _____ Value related: _____ Time related: _____	Item		
30	<b>A30.0 PENALTY FOR NON-COMPLETION</b>  Clause 30.0  Fixed: _____ Value related: _____ Time related: _____	Item		
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## **PAYMENT**

### **A31.0 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

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**

31.8(B) Where **security** as a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

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

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

### 32 **A32.0 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

### 33 **A33.0 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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34	<p><b>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</b></p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where <b>security</b> as a fixed <b>construction guarantee</b> in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</p> <p>Clause 34.13 is amended by replacing "seven (7) <b>calendar days</b>" with "twenty-one (21) <b>calendar days</b>" and deleting the words "subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
35	<p><b>A35.0 PAYMENT TO OTHER PARTIES</b></p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
<p><b>Carried to Collection</b></p>			
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36	<p><b><u>CANCELLATION</u></b></p> <p><b>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</b></p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the <b>employer</b>, has engaged in <b>corrupt</b> or <b>fraudulent practices</b> in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "<b>principal agent</b>" with "<b>employer</b>"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
37	<p><b>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</b></p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Preliminaries Bill No. 1 Preliminaries</p>		R	

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

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

38

**A38.0 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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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39    **A39.0 CANCELLATION - CESSATION OF THE WORKS**

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence:

"within one hundred and twenty (120) **working days** of completion of such a report"

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**DISPUTE**

40    **A40.0 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SUBSTITUTE PROVISIONS**

41    **A41.0 STATE CLAUSES**

Clause 41.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**CONTRACT VARIABLES**

42 **A42.0 THE SCHEDULE (DPW-04EC)**

Clause 42.0

Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SECTION B: JBCC PRELIMINARIES**

**B1.0 DEFINITIONS AND INTERPRETATION**

43 **B1.1 Definitions and interpretation**

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**B2.0 DOCUMENTS**

44 **B2.1 Checking of documents**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

47 **B2.4 Interests of agents**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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48	<b>B2.5 Priced documents</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
49	<b>B2.6 Tender submission</b>  Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"  Fixed:_____ Value related:_____ Time related:_____	Item	
	<b><u>B3.0 THE SITE</u></b>		
50	<b>B3.1 Defined works area</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
51	<b>B3.2 Geotechnical investigation</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
52	<b>B3.3 Inspection of the site</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
53	<b>B3.4 Existing premises occupied</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
54	<b>B3.5 Previous work - dimensional accuracy</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
55	<b>B3.6 Previous work - defects</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
56	<b>B3.7 Services - known</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
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57	<b>B3.8 Services - unknown</b> Fixed:_____ Value related:_____ Time related:_____	Item	
58	<b>B3.9 Protection of trees</b> Fixed:_____ Value related:_____ Time related:_____	Item	
59	<b>B3.10 Articles of value</b> Fixed:_____ Value related:_____ Time related:_____	Item	
60	<b>B3.11 Inspection of adjoining properties</b> Fixed:_____ Value related:_____ Time related:_____	Item	
	<b><u>B4.0 MANAGEMENT OF CONTRACT</u></b>		
61	<b>B4.1 Management of the works</b> Fixed:_____ Value related:_____ Time related:_____	Item	
62	<b>B4.2 Programme for the works</b> Fixed:_____ Value related:_____ Time related:_____	Item	
63	<b>B4.3 Progress meetings</b> Fixed:_____ Value related:_____ Time related:_____	Item	
64	<b>B4.4 Technical meetings</b> Fixed:_____ Value related:_____ Time related:_____	Item	
65	<b>B4.5 Labour and plant records</b> Fixed:_____ Value related:_____ Time related:_____	Item	
<b>Carried to Collection</b>			
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**B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS**

66 **B5.1 Samples of materials**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

67 **B5.2 Workmanship samples**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

68 **B5.3 Shop drawings**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

69 **B5.4 Compliance with manufacturers' instructions**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**B6.0 TEMPORARY WORKS AND PLANT**

70 **B6.1 Deposits and fees**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

72 **B6.3 Advertising**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

74 **B6.5 Main notice board**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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75	<b>B6.6 Subcontractors' notice board</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
	<b><u>B7.0 TEMPORARY SERVICES</u></b>		
76	<b>B7.1 Location</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
77	<b>B7.2 Water</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
78	<b>B7.3 Electricity</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
79	<b>B7.4 Telecommunication facilities</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
80	<b>B7.5 Ablution facilities</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
	<b><u>B8.0 PRIME COST AMOUNTS</u></b>		
81	<b>B8.1 Responsibility for prime cost amounts</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
	<b><u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u></b>		
82	<b>B9.1 General attendance</b>  Fixed:_____ Value related:_____ Time related:_____	Item	
	<p style="text-align: center;"><b>Carried to Collection</b></p>		
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83	<b>B9.2 Special attendance</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
84	<b>B9.3 Commissioning - fuel, water and electricity</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
	<b><u>B10.0 FINANCIAL ASPECTS</u></b>		
85	<b>B10.1 Statutory taxes, duties and levies</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
86	<b>B10.2 Payment for preliminaries</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
87	<b>B10.3 Adjustment of preliminaries</b>  Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) <b>working days</b> of taking possession of the <b>site</b> " with "when submitting his priced <b>bills of quantities / lump sum document</b> "  Fixed: _____ Value related: _____ Time related: _____	Item	
88	<b>B10.4 Payment certificate cash flow</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
	<b><u>B11.0 GENERAL</u></b>		
89	<b>B11.1 Protection of the works</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
90	<b>B11.2 Protection / isolation of existing / sectionally occupied works</b>  Fixed: _____ Value related: _____ Time related: _____	Item	
	<b>Carried to Collection</b>		
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91	<b>B11.3 Security of the works</b> Fixed: _____ Value related: _____ Time related: _____	Item		
92	<b>B11.4 Notice before covering work</b> Fixed: _____ Value related: _____ Time related: _____	Item		
93	<b>B11.5 Disturbance</b> Fixed: _____ Value related: _____ Time related: _____	Item		
94	<b>B11.6 Environmental disturbance</b> Fixed: _____ Value related: _____ Time related: _____	Item		
95	<b>B11.7 Works cleaning and clearing</b> Fixed: _____ Value related: _____ Time related: _____	Item		
96	<b>B11.8 Vermin</b> Fixed: _____ Value related: _____ Time related: _____	Item		
97	<b>B11.9 Overhand work</b> Fixed: _____ Value related: _____ Time related: _____	Item		
98	<b>B11.10 Instruction manuals and guarantees</b> Fixed: _____ Value related: _____ Time related: _____	Item		
99	<b>B11.11 As built information</b> Fixed: _____ Value related: _____ Time related: _____	Item		
100	<b>B11.12 Tenant installations</b> Fixed: _____ Value related: _____ Time related: _____	Item		
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## **B12.0 SCHEDULE OF VARIABLES**

### ***B12.1 Schedule of variables***

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

This **schedule** contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these **Preliminaries**

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

### **12.1 PRE-TENDER INFORMATION**

#### **12.1.1 Provisional bills of quantities**

[2.2] The quantities are provisional  
YES/NO

#### **12.1.2 Availability of construction documentation**

[2.3] *Construction documentation is complete*  
YES/NO

#### **12.1.3 Interests of agents**

[2.4] Details:

#### **12.1.4 Defined works area**

[3.1] Details:

#### **12.1.5 Geotechnical investigation**

[3.2] Details:

#### **12.1.6 Existing premises occupied**

[3.4] Specific requirements:

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12.1.7 **Previous work - dimensional accuracy**  
[3.5] Details:

12.1.8 **Previous work - defects**  
[3.6] Details:

12.1.9 **Services - known**  
[3.7] Details:

12.1.10 **Protection of trees**  
[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**  
[3.11] Specific requirements:

12.1.12 **Enclosure of the works**  
[6.2] Specific requirements:

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

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**12.1.14 Main notice board**

**[6.5]** Specific requirements:  
The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m 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]** A notice board is required  
YES/NO  
Specific requirements:

**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

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<p>12.1.18 <b>Telecommunications</b> [7.4] Telephone YES/NO</p> <p>Facsimile YES/NO</p> <p>E-mail YES/NO</p> <p>12.1.19 <b>Ablution facilities</b> [7.5] Option A (by <b>contractor</b>) YES/NO</p> <p>Option B (by <b>employer</b>) YES/NO</p> <p>12.1.20 <b>Protection of existing/sectionally occupied works</b> [11.2] Protection is required YES/NO</p> <p>12.1.21 <b>Special attendance</b> [9.2] <b>Subcontractor</b> (1) details:</p> <p><b>Subcontractor</b> (2) details:</p> <p><b>Subcontractor</b> (3) details:</p> <p><b>Subcontractor</b> (4) details:</p> <p>12.1.22 <b>Protection of the works</b> [11.1] Specific requirements:</p> <p>12.1.23 <b>Disturbance</b> [11.5] Specific requirements: The <b>contractor</b> shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the <b>works</b> all necessary temporary dust screens all to the satisfaction of the <b>principal agent</b></p>			
<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Preliminaries Bill No. 1 Preliminaries</p>		<p style="text-align: center;">R</p>	

12.1.24 **Environmental disturbance**  
[11.6] Specific requirements:

**12.2 POST-TENDER INFORMATION**

12.2.1 **Payment of preliminaries**  
[10.2] Option A (prorated)  
YES/NO

Option B (calculated)  
YES/NO

12.2.2 **Adjustment of preliminaries**  
[10.3] Option A (three categories)  
YES/NO

Option B (detailed breakdown)  
YES/NO

12.2.3 **Additional agreed preliminaries items**  
Details:

**SECTION C: SPECIFIC PRELIMINARIES**

**Section C** contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

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102	<p><b>C1.0 CONTRACT DRAWINGS</b></p> <p><i>* Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a <b>bills of quantities</b> or <b>lump sum document</b></i></p> <p>* The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the <b>works</b> and the manner in which they are to be executed</p> <p>* A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the <b>works</b> and the manner in which they are to be executed</p> <p>Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the <b>principal agent</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
103	<p><b>C2.0 GENERAL PREAMBLES</b></p> <p>The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (<a href="http://www.publicworks.gov.za/">http://www.publicworks.gov.za/</a> under "Consultants Guidelines"), and shall be read in conjunction with the <b>bills of quantities / lump sum document</b> and be referred to for the full descriptions of work to be done and materials to be used</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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104	<p><b>C3.0 TRADE NAMES</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities / lump sum document</b>, 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 <b>principal agent</b> being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
105	<p><b>C4.0 IMPORTED MATERIALS AND EQUIPMENT</b></p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
106	<p><b>C5.0 VIEWING THE SITE IN SECURITY AREAS</b></p> <p>The <b>site</b> is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the <b>site</b> for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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107	<p><b>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> must give the unit commander or other responsible officer notice before commencement of the <b>works</b>. Should the <b>contractor</b> fail to make such arrangements, admission to the <b>site</b> may be refused and any additional costs will be for the <b>contractor's</b> account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
108	<p><b>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
109	<p><b>C8.0 SECURITY CHECK OF PERSONNEL</b></p> <p>The <b>principal agent</b> may require the <b>contractor</b> to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the <b>principal agent</b> requesting the removal of a person or persons from the <b>works</b> for security reasons, the <b>contractor</b> shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the <b>works</b> and the <b>site</b> and/or to any document or information relating to the <b>works</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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**C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

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**C10.0 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 / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

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**C10.1 AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

Item

**C10.2 AWARENESS WORKSHOPS**

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

Item

**C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

Item

**C10.4 ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

Item

**Carried to Collection**

R

Preliminaries  
Bill No. 1  
Preliminaries

	<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>Fixed: _____ Value related: _____ Time related: _____</p>			
112	<p><b>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</b></p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the <b>contractor</b> to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b></p> <p>The <b>contractor</b> must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
113	<p style="text-align: center;">*** Page Feed ***</p>	Item		
	<b>Carried to Collection</b>		R	
	Preliminaries			
	Bill No. 1			
	Preliminaries			



Khamangwa High School  
General Repairs and Renovations

Section No. 1

Bill No. 1

Preliminaries

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R

Preliminaries  
Bill No. 1  
Preliminaries

Section No. 1

Bill No. 1

Preliminaries

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**Carried to Final Summary**

R

Preliminaries  
Bill No. 1  
Preliminaries

Item No	Quantity	Rate	Amount
<b>BILL NO. 1</b>			
<b><u>ALTERATIONS (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>View site</u>			
Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated			
<u>General</u>			
The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent			
Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent			
<b>Carried to Collection</b>			
Block B - 3 Classroom Block Bill No. 1 Alterations (Provisional)			R

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

Removal of materials

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

Removal of asbestos material

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

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

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

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

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

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

**REMOVAL OF EXISTING WORK**

Breaking up and removing unreinforced concrete

1	100mm Thick surface beds	m2	39
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Breaking down and removing brickwork etc

2	One brick walls	m2	12
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Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)

3	Timber single door not exceeding 2,5m <sup>2</sup>	No	4
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4	Glazed steel window 1500 x 1200mm high from brick wall	No	1
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5	Servicing of existing steel windows with new hinges, latches etc	No	16
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**Note: Tenderers are referred to the foregoing supplementary preambles within this trade when pricing the following item (removal of asbestos)**

Taking down and removal of Asbestos by Specialist

6	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	290
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Double pitched timber roof structure with two gable ends, overall size 24.24 x 9.71 x 1.70m high and 3.00 x 3.00m mono pitch attached to main roof including wall plates, bracing etc.	m2	290
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8	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	178
---	---	----	-----

9	Barge boards	m	23
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10	Fascia boards	m	48
----	---------------	---	----

11	Eaves gutters	m	48
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**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

**Khamangwa High School**  
**General Repairs and Renovations**

12	Rainwater pipes	m	27
	<u>Taking out and removing ironmongery</u>		
13	Remove existing pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	3
14	Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	3
	<u>Taking out/off and removing sundry metalwork</u>		
15	Steel single door and frame not exceeding 2,5m <sup>2</sup>	No	1
16	Steel single leaf security gate not exceeding 2,5m <sup>2</sup>	No	3
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>		
17	30mm Screed from floors	m2	216
18	Internal plaster from walls	m2	259
19	External plaster from walls	m2	180
	<u>Taking out/off and removing glass and mirrors</u>		
20	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	12
	<b><u>MAKING GOOD OF EXISTING WORKS</u></b>		
21	Repairs to existing surface beds, including filling in cracks, with an approved filler, stitching as required, etc	m2	8

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

Section No. 2

Bill No. 1

Alterations (Provisional)

**COLLECTION**

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Block B - 3 Classroom Block

Bill No. 1

Alterations (Provisional)

R



Item No		Quantity	Rate	Amount
	<b>BILL NO. 2</b>			
	<b>EARTHWORKS (PROVISIONAL)</b>			
	<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>			
	<b>EXCAVATIONS, ETC</b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	12	
2	Reduced levels under floors	m3	6	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	2	
4	Hard rock	m3	1	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	38	
	<u>Compaction of surfaces</u>			
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 95% Mod AASHTO density	m2	44	
	<b>FILLING ETC</b>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
7	Backfilling to trenches, holes, etc	m3	5	
	<b>Carried to Collection</b>			
	Block B - 3 Classroom Block			
	Bill No. 2			
	Earthworks (Provisional)			

**WEED KILLERS, INSECTICIDES, ETC**

Soil insecticide in accordance with SANS 5859

8	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	29
9	To bottoms and sides of trenches etc	m2	55

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R

Section No. 2

Bill No. 2

Earthworks (Provisional)

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Block B - 3 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Cost of tests</u>			
<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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<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>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"</p>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa/19mm concrete</u>			
1	Strip footings	m3	4
2	Surface beds on waterproofing	m3	11
<b>Carried to Collection</b>			R
Block B - 3 Classroom Block			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

**TEST CUBES**

- 3 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)

No

2

**CONCRETE SUNDRIES**

Finishing top surfaces of concrete smooth with a steel trowel

- 4 Surface beds, slabs, etc

m2

44

**REINFORCEMENT**

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

44

**Carried to Collection**

Block B - 3 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

Section No. 2  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

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Block B - 3 Classroom Block  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

R

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 5</u></b>			
<b><u>WATERPROOFING (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<b><u>Note:</u></b>			
For Preambles refer to "Standard Preambles to all trades - WB20 - 1986"			
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls	m2	6
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	44
<u>Polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>			
3	12 x 30mm In expansion joints in floors	m	27
<b><u>SEALING STRIPS, JOINT SEALANTS, ETC</u></b>			
<u>Polysulphide Sealant</u>			
4	Polysulphide sealant applied with a pressure caulking gun in joints between steel frames and walls	m	27
Carried Forward to Summary of Section No. 2			R
Block B - 3 Classroom Block			
Bill No. 5			
Watereproofing (Provisional)			



Item No	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>			
<b><u>ROOF COVERINGS (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
<u>0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	290
2	Ridge cappings 475mm girth	m	24
<b><u>ROOF AND WALL INSULATION</u></b>			
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m<sup>2</sup> and a Class I fire rating in accordance with SANS 0177-3</u>			
3	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	290
<b>Carried Forward to Summary of Section No. 2</b>			R
Block B - 3 Classroom Block			
Bill No. 6			
Roof Coverings (Provisional)			

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 7</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b> <b><u>(PROVISIONAL)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Joinery</u></p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><b><u>STRUCTURAL TIMBERWORK ETC</u></b></p> <p><b><u>PLATE NAILED TIMBER ROOF TRUSS</u></b> <b><u>CONSTRUCTION ETC</u></b></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Trusses are at maximum 1200mm centres</p> <p>Roof covering is 0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing.</p> <p>Ceilings are 6,4mm rhinoboard on 38 x 38mm brandering</p>			
<p><b>Carried to Collection</b></p> <p>Block B - 3 Classroom Block</p> <p>Bill No. 7</p> <p>Carpentry and Joinery (Provisional)</p>			<p>R</p>

**Khamangwa High School**  
**General Repairs and Renovations**

	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
1	Supply and install prefabricated timber roof truss system complete and in accordance with the Standard Building Regulations. Truss spanning 9711 x 1700mm high overall with 700mm eaves projection on both sides	No	21		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to brick piers	m	24		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	47		
4	50 x 76mm Purlins	m	436		
5	38 x 114mm Bracing	m	30		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	43		
7	Two coats creosote on sawn timbers	m2	43		
	<b><u>EAVES, VERGES, ETC</u></b>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
8	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	23		
9	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	48		
<b>Carried to Collection</b>					
Block B - 3 Classroom Block					R
Bill No. 7					
Carpentry and Joinery (Provisional)					

### TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber frames

[illegible]

Section No. 2

Bill No. 7

Carpentry and Joinery (Provisional)

**COLLECTION**

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Block B - 3 Classroom Block

Bill No. 7

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 8</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b><u>NAILED-UP CEILINGS</u></b>			
	<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres	m2	178	
2	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	4	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	102	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Block B - 3 Classroom Block			
	Bill No. 8			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No	Quantity	Rate	Amount
<b>BILL NO. 10</b>			
<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b>Carried to Collection</b>			R
Block B - 3 Classroom Block Bill No. 10 Ironmongery (Provisional)			



**LOCKS**

Manufactured by "Union"

- 1 Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles

No

4

**SUNDRIES**

Manufactured by "Union"

- 2 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw

No

5

**PINNING BOARDS, WRITING BOARDS,  
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

- 3 Standard green enamel megnatic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged

No

3

- 4 Pinning board size 2400 x 1200mm high plugged

No

3

**Carried to Collection**

R

Block B - 3 Classroom Block  
Bill No. 10  
Ironmongery (Provisional)

Section No. 2

Bill No. 10

Ironmongery (Provisional)

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Block B - 3 Classroom Block  
Bill No. 10  
Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>METALWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Descriptions of bolts, anchors, etc</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>			
<u>Welded screens and gates</u>			
1	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	4
<b><u>GALVANISED STEEL MINOR WORK</u></b>			
<u>Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors</u>			
2	100mm Diameter galvanised mild steel support post with timber beam over to support roof above (Timber beam elsewhere)	m	4
<b>Carried to Collection</b>			R
Block B - 3 Classroom Block			
Bill No. 11			
Metalwork (Provisional)			

## GALVANISED STEEL WINDOWS, DOORS, ETC

'Duro Pressing' or other approved standard hot dipped galvanised school type windows fitted with and including 19mm mild steel flat bar burglar proofing to opening sections

3	Window size, 1500 x 1200mm high
---	---------------------------------

No

1

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 11  
Metalwork (Provisional)

R

Section No. 2

Bill No. 11

Metalwork (Provisional)

**COLLECTION**

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Block B - 3 Classroom Block  
Bill No. 11  
Metalwork (Provisional)

R

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 13</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>			
Block B - 3 Classroom Block			
Bill No. 13			
Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 13  
Plumbing and Drainage (Provisional)

R



French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	48
2	100mm Diameter rainwater pipes	m	41
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	6
5	Extra over rainwater pipe for bend	No	12
6	Extra over rainwater pipe for plinth bend	No	6
7	Extra over rainwater pipe for shoe	No	2
8	Extra over rainwater pipe for eaves or plinth offset	No	6

**STORMWATER CHANNELS**

Earthworks

9	Excavate average 125mm deep in earth to form "V" drain profile	m3	10
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**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 13  
Plumbing and Drainage (Provisional)

R

## Khamangwa High School General Repairs and Renovations

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Section No. 2

Bill No. 13

Plumbing and Drainage (Provisional)

**COLLECTION**

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**Amount**

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Block B - 3 Classroom Block

Bill No. 13

Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 14</u></b>			
<b><u>ELECTRICAL WORK (PROVISIONAL)</u></b>			
<b><u>MAIN POWER SUPPLY</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Distribution boards etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
<u>Switches, socket outlets, etc</u>			
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
<u>Light fittings</u>			
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
<b><u>MUNICIPAL CONNECTION</u></b>			
<b><u>CONNECTION</u></b>			
1		Provide the sum of R200 000 (Two hundred thousand rand) for municipal connection	
2		Profit	
3		Connection of 95mm <sup>2</sup> 3-core PEX cable with stranded copper conductors and 70mm <sup>2</sup> bare copper earth conductor to existing 11kV ring main supply cable, including required terminations and cable joints and making the necessary arrangements with the local authority	
	No	1	
<b>Carried to Collection</b>			R
Block B - 3 Classroom Block			
Bill No. 14			
Electrical work (Provisional)			

	<b><u>MINIATURE SUBSTATIONS</u></b>				
4	160kVA/400-231V Miniature substation with and including transformer, high and low voltage compartments with equipment, instrumentation, busbars, wiring and connections	No	1		
	<b><u>CABLES</u></b>				
	<u>11kV PEX armoured cables laid in trenches or drawn through sleeve pipes (trenches and sleeve pipes elsewhere)</u>				
5	185mm <sup>2</sup> 3-Core	m	50		
	<u>Cable terminations</u>				
6	185mm <sup>2</sup> 3-Core	No	2		
	<b><u>EARTH CONDUCTORS</u></b>				
	<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
7	150mm <sup>2</sup>	m	50		
	<b><u>CABLE TRENCHES</u></b>				
8	Excavation in earth not exceeding 2m deep for cable trenches including risk of collapse of excavations, keeping excavations free from water, setting aside excavated material and later refilling of trenches	m3	25		
9	Extra over trench excavations in earth for excavation in soft rock	m3	5		
10	Extra over trench excavations in earth for excavation in hard rock	m3	5		
11	Extra over trench excavations for carting away surplus material to a dumping site to be located by the contractor	m3	10		
	<b><u>SUNDRIES</u></b>				
12	Concrete block cable marker with inscribed aluminium or brass indicator plate	No	10		
<b>Carried to Collection</b>					R
Block B - 3 Classroom Block					
Bill No. 14					
Electrical work (Provisional)					

**DISTRIBUTION BOARD DB**

13	Surface type floor mounted distribution board in three sections (normal, standby and uninterruptable power) without doors with space for the following equipment and 30% spare space to each section and with fourth section 500mm wide x 200mm deep x 600mm high for telephone equipment, fitted with doors and 20mm thick timber board on the inside to cover the full area, the board colour coded and installed in electrical cupboard	No	1
	<u>Normal section</u>		
14	60A Triple pole isolator	No	6
15	2A Single pole MCCB (5kA)	No	2
16	250A 3 pole MCCB (85kA)	No	1
17	20A Time switch with 72 hour spring reserve	No	1
	<u>Standby section</u>		
18	100A Triple pole isolator	No	1
19	15A Single pole MCCB (5kA)	No	2
20	250A 3 pole MCCB (85kA)	No	1
21	60A Single phase earth leakage unit (30mA)	No	1
	<u>Uninterruptable power section</u>		
22	60A Double pole isolator	No	1
23	100A Triple pole isolator	No	1
24	15A Single pole MCCB (5kA)	No	2
25	250A 3 pole MCCB (85kA)	No	1

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

R

**BLOCK B**

**LOW TENSION DISTRIBUTION**

**DISTRIBUTION BOARD DB**

26	Flush mounted distribution board in one section (uninterruptable power) with door, space for the following equipment and space for 6 additional circuit breakers, colour coded and installed in recess (elsewhere) in brick wall	No	1
27	60A Triple pole isolator	No	1
28	10A Single pole MCCB (5kA)	No	5

**CABLES**

29	1.5mm <sup>2</sup> 3-Core	m	210
30	2.5mm <sup>2</sup> 3-Core	m	80
31	16mm <sup>2</sup> 3-Core	m	60

**Cable joints**

32	1.5mm <sup>2</sup> 3-Core	No	2
33	2.5mm <sup>2</sup> 3-Core	No	
34	16mm <sup>2</sup> 3-Core	No	2

**Cable terminations**

35	1.5mm <sup>2</sup> 3-Core	No	40
36	2.5mm <sup>2</sup> 3-Core	No	40
37	16mm <sup>2</sup> 3-Core	No	2

**Carried to Collection**

R

Block B - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

**EARTH CONDUCTORS**

Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres

PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres

38	6mm <sup>2</sup>	m	60	
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**CABLE TRENCHES**

39	Excavation in earth not exceeding 2m deep for cable trenches including risk of collapse of excavations, keeping excavations free from water, setting aside excavated material and later refilling of trenches	m3	10	
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40	Extra over trench excavations in earth for excavation in soft rock	m3	3	
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41	Extra over trench excavations in earth for excavation in hard rock	m3	3	
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42	Extra over trench excavations for carting away surplus material to a dumping site to be located by the contractor	m3	2	
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**SUNDRIES**

43	Concrete block cable marker with inscribed aluminium or brass indicator plate	No	3	
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44	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1	
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**GENERAL LIGHTING AND POWER**

**CONDUITS ETC**

Rigid PVC conduits

45	20mm Diameter	m	290	
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**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

R



	<u>PVC conduit accessories</u>		
46	Round outlet box for 20mm conduit	No	29
47	Deep type (concrete type) round outlet box for 20mm conduit	No	29
48	Standard draw box for 20mm conduit	No	29
49	50 x 100 x 50mm Outlet box	No	29
50	100 x 100 x 50mm Outlet box	No	29
51	100 x 100 x 50mm Outlet box with blank cover plate	No	29
	<b><u>CONDUCTORS</u></b>		
	<u>Bare copper conductors drawn into conduit, trunking or power skirting</u>		
	<u>PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>		
	<u>Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>		
52	1.5mm <sup>2</sup>	m	290
	<b><u>DRAW-WIRES</u></b>		
53	Galvanised steel draw-wires drawn into conduit	m	290
	<b><u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u></b>		
54	Flush mounted bell push button	No	1
55	16A Flush mounted one lever one-way switch unit	No	4
56	16A Flush mounted two lever one-way switch unit	No	1
57	16A Three pin flush mounted socket outlet with switch, single type	No	8
	<b><u>LUMINAIRES</u></b>		
58	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	21
	<b>Carried to Collection</b>		
	Block B - 3 Classroom Block		
	Bill No. 14		
	Electrical work (Provisional)		

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

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## Khamangwa High School General Repairs and Renovations

**SUNDRIES**

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Section No. 2

Bill No. 14

Electrical work (Provisional)

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Block B - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 16</u></b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
<b>Carried to Collection</b>			R
Block B - 3 Classroom Block Bill No. 16 Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	259		
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**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

2	Walls	m2	194		
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**ON PLASTERBOARD SURFACES**

One coat primer, one universal undercoat and two coats exterior quality "Cemote" pva paint

3	Ceilings and cornices	m2	178		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

4	Fascias and barge boards, including priming metal jointing strips	m2	39		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	14		
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6	Laminated beam	m2	18		
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**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

R

**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK**

**ON METAL SURFACES**

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

7	Windows	m2	58
8	Barglar bars	m2	58
9	Door frame	m2	8

**Carried to Collection**

Block B - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

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Section No. 2

Bill No. 16

Paintwork (Provisional)

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Block B - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

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Bill No	SECTION SUMMARY - Block B - 3 Classroom Block	Page No	Amount
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3	Concrete, Formwork and Reinforcement (Provisional)	54	
4	Masonry (Provisional)	55	
5	Waterproofing (Provisional)	56	
6	Roof Coverings (Provisional)	57	
7	Carpentry and Joinery (Provisional)	61	
8	Ceilings, Partitions and Access Flooring (Provisional)	62	
9	Floor Coverings, Wall Linings, etc. (Provisional)	63	
10	Ironmongery (Provisional)	66	
11	Metalwork (Provisional)	69	
12	Plastering (Provisional)	70	
13	Plumbing and Drainage (Provisional)	75	
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15	Glazing (Provisional)	84	
16	Paintwork (Provisional)	88	
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Block B - 3 Classroom Block			

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p>			
Carried to Collection		R	
Block D - 2 Classroom Block			
Bill No. 1			
Alterations (Provisional)			

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

<u>Removal of materials</u>					
Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.					
<b><u>REMOVAL OF EXISTING WORK</u></b>					
<u>Breaking up and removing unreinforced concrete</u>					
1	100mm Thick surface beds	m2	29		
<u>Breaking down and removing brickwork etc</u>					
2	One brick walls	m2	12		
<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)</u>					
3	Timber single door not exceeding 2,5m <sup>2</sup>	No	2		
4	Glazed steel window 1500 x 1200mm high from brick wall	No	1		
5	Servicing of existing steel windows with new hinges, latches etc	No	14		
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
6	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	106		
7	Barge boards	m	23		
8	Fascia boards	m	32		
9	Eaves gutters	m	32		
10	Rainwater pipes	m	27		
<b>Carried to Collection</b>				R	
Block D - 2 Classroom Block					
Bill No. 1					
Alterations (Provisional)					

## Khamangwa High School General Repairs and Renovations

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Section No. 3

Bill No. 1

Alterations (Provisional)

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Block D - 2 Classroom Block

Bill No. 1

Alterations (Provisional)

R

Item No		Quantity	Rate	Amount
<b>BILL NO. 2</b>				
<b>EARTHWORKS (PROVISIONAL)</b>				
<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>				
<b>EXCAVATIONS, ETC</b>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m3	8	
2	Reduced levels under floors	m3	4	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	1	
4	Hard rock	m3	1	
<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	27	
<u>Compaction of surfaces</u>				
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 95% Mod AASHTO density	m2	29	
<b>FILLING ETC</b>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>				
7	Backfilling to trenches, holes, etc	m3	3	
<b>Carried to Collection</b>				R
Block D - 2 Classroom Block Bill No. 2 Earthworks (Provisional)				

**WEED KILLERS, INSECTICIDES, ETC**

Soil insecticide in accordance with SANS 5859

8	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	18
9	To bottoms and sides of trenches etc	m2	38

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

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Section No. 3

Bill No. 2

Earthworks (Provisional)

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Block D - 2 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Cost of tests</u>			
<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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<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>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"</p>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa/19mm concrete</u>			
1	Strip footings	m3	3
2	Surface beds on waterproofing	m3	7
<b>Carried to Collection</b>			R
Block D - 2 Classroom Block			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

**TEST CUBES**

- 3 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)

No

2

**CONCRETE SUNDRIES**

Finishing top surfaces of concrete smooth with a steel trowel

- 4 Surface beds, slabs, etc

m2

29

**REINFORCEMENT**

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

29

**Carried to Collection**

R

Block D - 2 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

Section No. 3  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

**COLLECTION**

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Block D - 2 Classroom Block  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

R

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 5</u></b>			
	<b><u>WATERPROOFING (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<b><u>Note:</u></b>			
	For Preambles refer to "Standard Preambles to all trades - WB20 - 1986"			
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls	m2	6	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	44	
	<u>Polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>			
3	12 x 30mm In expansion joints in floors	m	27	
	<b><u>SEALING STRIPS, JOINT SEALANTS, ETC</u></b>			
	<u>Polysulphide Sealant</u>			
4	Polysulphide sealant applied with a pressure caulking gun in joints between steel frames and walls	m	27	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Block D - 2 Classroom Block			
	Bill No. 5			
	Waterproofing (Provisional)			
			R	

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<b><u>STRUCTURAL TIMBERWORK ETC</u></b>			
<b><u>PLATE NAILED TIMBER ROOF TRUSS</u></b>			
<b><u>CONSTRUCTION ETC</u></b>			
<u>Wrought laminated Saligna</u>			
1	297 x 70mm Beam bolted to brick piers	m	16
<u>Sundries</u>			
2	Wrought faces on sawn timbers	m2	29
3	Two coats creosote on sawn timbers	m2	29
<b>Carried to Collection</b>			R
Block D - 2 Classroom Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

**EAVES, VERGES, ETC**

Medium density plain fibre-cement fascias and barge boards

4	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	23		
5	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	32		

**TIMBER DOORS, WINDOWS, ETC**

Wrought meranti doors hung to timber frames

6	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	2		
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**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 6  
Carpentry and Joinery (Provisional)

R



Section No. 3

Bill No. 6

Carpentry and Joinery (Provisional)

**COLLECTION**

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Block D - 2 Classroom Block

Bill No. 6

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 7</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b><u>NAILED-UP CEILINGS</u></b>			
	<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres	m2	106	
2	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	2	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	58	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Block D - 2 Classroom Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No	Quantity	Rate	Amount
<b>BILL NO. 9</b>			
<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b>Carried to Collection</b>			R
Block D - 2 Classroom Block Bill No. 9 Ironmongery (Provisional)			

**LOCKS**

Manufactured by "Union"

- 1 Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles

No

2

**SUNDRIES**

Manufactured by "Union"

- 2 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw

No

2

**PINNING BOARDS, WRITING BOARDS,  
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

- 3 Standard green enamel megnatic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged

No

2

- 4 Pinning board size 2400 x 1200mm high plugged

No

2

**Carried to Collection**

R

Block D - 2 Classroom Block  
Bill No. 9  
Ironmongery (Provisional)

Section No. 3

Bill No. 9

Ironmongery (Provisional)

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Block D - 2 Classroom Block  
Bill No. 9  
Ironmongery (Provisional)

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 10</u></b>			
	<b><u>METALWORK (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Descriptions of bolts, anchors, etc</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>			
	<u>Welded screens and gates</u>			
1	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	2	
	<b><u>GALVANISED STEEL MINOR WORK</u></b>			
	<u>Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors</u>			
2	100mm Diameter galvanised mild steel support post with timber beam over to support roof above (Timber beam and roof elsewhere)	m	8	
	<b>Carried to Collection</b>			
	Block D - 2 Classroom Block			
	Bill No. 10			
	Metalwork (Provisional)			

**GALVANISED STEEL WINDOWS, DOORS, ETC**

'Duro Pressing' or other approved standard hot dipped galvanised school type windows fitted with and including 19mm mild steel flat bar burglar proofing to opening sections

3 Window size, 1500x 1200mm high

No

1

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 10  
Metalwork (Provisional)

R



Section No. 3

Bill No. 10

Metalwork (Provisional)

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Block D - 2 Classroom Block  
Bill No. 10  
Metalwork (Provisional)

R

m2	8
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R

Block D - 2 Classroom Block  
Bill No. 11  
Plastering (Provisional)

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 12</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>			
Block D - 2 Classroom Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 12  
Plumbing and Drainage (Provisional)

R

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	32
2	100mm Diameter rainwater pipes	m	12
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	2
5	Extra over rainwater pipe for bend	No	4
6	Extra over rainwater pipe for shoe	No	2

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 12  
Plumbing and Drainage (Provisional)

R

**STORMWATER CHANNELS**

Earthworks

7	Excavate average 125mm deep in earth to form "V" drain profile	m3	8	
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Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

8	"V" drains	m3	8	
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9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	64	
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10	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	68	
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11	Type 193 fabric reinforcement in concrete surface beds etc	m2	64	
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12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	49	
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**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 12  
Plumbing and Drainage (Provisional)

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Section No. 3

Bill No. 12

Plumbing and Drainage (Provisional)

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Block D - 2 Classroom Block

Bill No. 12

Plumbing and Drainage (Provisional)

R





**Khamangwa High School**  
**General Repairs and Renovations**

5	2.5mm <sup>2</sup> 3-Core	m	60		
6	16mm <sup>2</sup> 3-Core	m	60		
	<u>Cable joints</u>				
7	1.5mm <sup>2</sup> 3-Core	No	2		
8	2.5mm <sup>2</sup> 3-Core	No			
9	16mm <sup>2</sup> 3-Core	No	2		
	<u>Cable terminations</u>				
10	1.5mm <sup>2</sup> 3-Core	No	40		
11	2.5mm <sup>2</sup> 3-Core	No	40		
12	16mm <sup>2</sup> 3-Core	No	2		
	<b><u>EARTH CONDUCTORS</u></b>				
	<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
	<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
13	6mm <sup>2</sup>	m	60		
	<b><u>CABLE TRENCHES</u></b>				
14	Excavation in earth not exceeding 2m deep for cable trenches including risk of collapse of excavations, keeping excavations free from water, setting aside excavated material and later refilling of trenches	m3	10		
15	Extra over trench excavations in earth for excavation in soft rock	m3	3		
16	Extra over trench excavations in earth for excavation in hard rock	m3	3		
17	Extra over trench excavations for carting away surplus material to a dumping site to be located by the contractor	m3	2		
	<b>Carried to Collection</b>			R	
	Block D - 2 Classroom Block				
	Bill No. 13				
	Electrical work (Provisional)				

**Khamangwa High School**  
**General Repairs and Renovations**

**SUNDRIES**

18	Concrete block cable marker with inscribed aluminium or brass indicator plate	No	3
19	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1

**GENERAL LIGHTING AND POWER**

**CONDUITS ETC**

Rigid PVC conduits

20	20mm Diameter	m	200
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PVC conduit accessories

21	Round outlet box for 20mm conduit	No	20
22	Deep type (concrete type) round outlet box for 20mm conduit	No	20
23	Standard draw box for 20mm conduit	No	20
24	50 x 100 x 50mm Outlet box	No	20
25	100 x 100 x 50mm Outlet box	No	20
26	100 x 100 x 50mm Outlet box with blank cover plate	No	20

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 13  
Electrical work (Provisional)

R

<b><u>CONDUCTORS</u></b>					
	<u>Bare copper conductors drawn into conduit, trunking or power skirting</u>				
	<u>PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>				
	<u>Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>				
27	1.5mm <sup>2</sup>	m	290		
<b><u>DRAW-WIRES</u></b>					
28	Galvanised steel draw-wires drawn into conduit	m	290		
<b><u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u></b>					
29	Flush mounted bell push button	No	1		
30	16A Flush mounted one lever one-way switch unit	No	4		
31	16A Flush mounted two lever one-way switch unit	No	1		
32	16A Three pin flush mounted socket outlet with switch, single type	No	6		
<b><u>LUMINAIRES</u></b>					
33	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	14		
<b><u>SUNDRIES</u></b>					
34	Earthing of buildings		Item		
35	Provision of as built drawings		Item		
36	Testing and commissioning the complete electrical installation		Item		
<b>Carried to Collection</b>				R	
Block D - 2 Classroom Block					
Bill No. 13					
Electrical work (Provisional)					

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Bill No. 13

Electrical work (Provisional)

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Block D - 2 Classroom Block

Bill No. 13

Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 14</u></b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
<b>Carried to Collection</b>			
Block D - 2 Classroom Block			
Bill No. 15			
Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	146		
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**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

2	Walls	m2	138		
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**ON PLASTERBOARD SURFACES**

One coat primer, one universal undercoat and two coats exterior quality "Cemote" pva paint

3	Ceilings and cornices	m2	106		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

4	Fascias and barge boards, including priming metal jointing strips	m2	29		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	7		
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6	Laminated beam	m2	12		
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**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 15  
Paintwork (Provisional)

R

**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK**

**ON METAL SURFACES**

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

7	Windows	m2	43
8	Barglar bars	m2	43
9	Door frame	m2	3

**Carried to Collection**

Block D - 2 Classroom Block  
Bill No. 15  
Paintwork (Provisional)

R



Section No. 3

Bill No. 15

Paintwork (Provisional)

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Block D - 2 Classroom Block

Bill No. 15

Paintwork (Provisional)

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Block D - 2 Classroom Block			

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p>			
<p><b>Carried to Collection</b></p>			R
<p>Block G - 3 Classroom Block  Bill No. 1  Alterations (Provisional)</p>			

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

Removal of materials

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

Removal of asbestos material

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

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

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

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

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

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

**REMOVAL OF EXISTING WORK**

Breaking up and removing unreinforced concrete

1	100mm Thick surface beds	m2	49
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Breaking down and removing brickwork etc

2	One brick walls	m2	12
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Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)

3	Timber single door not exceeding 2,5m <sup>2</sup>	No	3
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4	Glazed steel window 1500 x 1200mm high from brick wall	No	1
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5	Servicing of existing steel windows with new hinges, latches etc	No	15
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**Note: Tenderers are referred to the foregoing supplementary preambles within this trade when pricing the following item (removal of asbestos)**

Taking down and removal of Asbestos by Specialist

6	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	308
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Double pitched timber roof structure with two gable ends, overall size 24.24 x 9.71 x 1.70m high and 3.00 x 3.00m mono pitch attached to main roof including wall plates, bracing etc.	m2	308
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8	Gypsum plasterboard ceilings, including timber branderling, cornices, etc	m2	187
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9	Barge boards	m	23
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10	Fascia boards	m	53
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11	Eaves gutters	m	53
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**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

**Khamangwa High School**  
**General Repairs and Renovations**

12	Rainwater pipes	m	27
	<u>Taking out and removing ironmongery</u>		
13	Remove existing pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	3
14	Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	3
	<u>Taking out/off and removing sundry metalwork</u>		
15	Steel single leaf security gate not exceeding 2,5m <sup>2</sup>	No	3
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>		
16	30mm Screed from floors	m2	236
17	Internal plaster from walls	m2	245
18	External plaster from walls	m2	192
	<u>Taking out/off and removing glass and mirrors</u>		
19	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	10
	<b><u>MAKING GOOD OF EXISTING WORKS</u></b>		
20	Repairs to existing surface beds, including filling in cracks, with an approved filler, stitching as required, etc	m2	8
	<b><u>METAL STITCHING</u></b>		
21	Hacking up/off and removing plaster from walls, columns and beams	m2	8
22	Chipout 40 x 10mm mortar joint between brickwork courses and clean out joint with an air compressor	m	32
23	19mm Diameter Thorhelical or similar approved helical bar inserted midway between structural cracks	m	32
24	Grout 40 x 10mm joint between brick courses	m	32
<b>Carried to Collection</b>			
Block G - 3 Classroom Block			
Bill No. 1			
Alterations (Provisional)			

R

## Khamangwa High School General Repairs and Renovations

25	Internal plaster on walls	m2	8	
26	External plaster on walls	m2	8	
27	One coat primer, one universal undercoat and two coats quality pva paint on plastered walls	m2	16	
<b><u>UNDERPINNING</u></b>				
<u>Excavation not exceeding 2m deep for underpinning (Provisional)</u>				
28	Excavate under existing foundation	m3	12	
29	Position 300mm long segmental steel tubing centrally to the foundation and with a hydraulic jack, drive the tube into the earth	No	2	
30	Place additional 300mm long tubing on to the previously driven tube and with the hydraulic jack, drive the remaining steel tubes into the earth till resistance is reached	No	38	
31	30Mpa/19mm Concrete in excavation up to the underside of the foundation	m3	7	
32	Backfilling to trenches, holes, etc with earth filling obtained from the excavations and/or prescribed stock piles on site including compaction to 90% Mod AASHTO density	m3	2	
<b>Carried to Collection</b>				R
Block G - 3 Classroom Block Bill No. 1 Alterations (Provisional)				



Section No. 4

Bill No. 1

Alterations (Provisional)

**COLLECTION**

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Block G - 3 Classroom Block

Bill No. 1

Alterations (Provisional)

R

Item No		Quantity	Rate	Amount
	<b>BILL NO. 2</b>			
	<b>EARTHWORKS (PROVISIONAL)</b>			
	<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>			
	<b>EXCAVATIONS, ETC</b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	12	
2	Reduced levels under floors	m3	6	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	2	
4	Hard rock	m3	1	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	42	
	<u>Compaction of surfaces</u>			
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 95% Mod AASHTO density	m2	49	
	<b>FILLING ETC</b>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
7	Backfilling to trenches, holes, etc	m3	5	
	<b>Carried to Collection</b>		R	
	Block G - 3 Classroom Block Bill No. 2 Earthworks (Provisional)			

**WEED KILLERS, INSECTICIDES, ETC**

Soil insecticide in accordance with SANS 5859

8	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	31		
9	To bottoms and sides of trenches etc	m2	59		

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R

Section No. 4

Bill No. 2

Earthworks (Provisional)

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Block G - 3 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Cost of tests</u>			
<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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<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>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"</p>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa/19mm concrete</u>			
1	Strip footings	m3	4
2	Surface beds on waterproofing	m3	12
<b>Carried to Collection</b>			R
Block G - 3 Classroom Block			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

**TEST CUBES**

- 3 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)

No

2

**CONCRETE SUNDRIES**

Finishing top surfaces of concrete smooth with a steel trowel

- 4 Surface beds, slabs, etc

m2

49

**REINFORCEMENT**

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

49

**Carried to Collection**

R

Block G - 3 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

Section No. 4  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

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Block G - 3 Classroom Block  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 4</u></b>			
<b><u>MASONRY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>BRICKWORK</u></b>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<b><u>BRICKWORK</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	15
<b><u>SUPERSTRUCTURE</u></b>			
<u>Brickwork of NFP bricks in class II mortar</u>			
2	One brick walls	m2	12
<u>2,5mm Galvanised brick reinforcement</u>			
3	150mm Wide reinforcement built in horizontally	m	59
<b>Carried Forward to Summary of Section No. 4</b>			R
Block G - 3 Classroom Block			
Bill No. 4			
Masonry (Provisional)			



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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>			
<b><u>ROOF COVERINGS (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
<u>0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	308
2	Ridge cappings 475mm girth	m	27
<b><u>ROOF AND WALL INSULATION</u></b>			
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m<sup>2</sup> and a Class I fire rating in accordance with SANS 0177-3</u>			
3	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	308
<b>Carried Forward to Summary of Section No. 4</b>			R
Block G - 3 Classroom Block			
Bill No. 6			
Roof Coverings (Provisional)			

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 7</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<b><u>STRUCTURAL TIMBERWORK ETC</u></b>			
<b><u>PLATE NAILED TIMBER ROOF TRUSS</u></b>			
<b><u>CONSTRUCTION ETC</u></b>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Trusses are at maximum 1200mm centres			
Roof covering is 0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing.			
Ceilings are 6,4mm rhinoboard on 38 x 38mm brandering			
<b>Carried to Collection</b>			R
Block G - 3 Classroom Block			
Bill No. 7			
Carpentry and Joinery (Provisional)			

**Khamangwa High School**  
**General Repairs and Renovations**

	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
1	Supply and install prefabricated timber roof truss system complete and in accordance with the Standard Building Regulations. Truss spanning 9711 x 1700mm high overall with 700mm eaves projection on both sides	No	23		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to brick piers	m	27		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	52		
4	50 x 76mm Purlins	m	478		
5	38 x 114mm Bracing	m	30		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	48		
7	Two coats creosote on sawn timbers	m2	48		
	<b><u>EAVES, VERGES, ETC</u></b>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
8	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	23		
9	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	53		
<b>Carried to Collection</b>					
				R	
Block G - 3 Classroom Block					
Bill No. 7					
Carpentry and Joinery (Provisional)					

**TIMBER DOORS, WINDOWS, ETC**

Wrought meranti doors hung to timber frames

- 10 44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint

No

3

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 7  
Carpentry and Joinery (Provisional)

R

Section No. 4

Bill No. 7

Carpentry and Joinery (Provisional)

**COLLECTION**

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Block G - 3 Classroom Block

Bill No. 7

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 8</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b><u>NAILED-UP CEILINGS</u></b>			
	<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres	m2	187	
2	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	3	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	95	
	<b>Carried Forward to Summary of Section No. 4</b>			
	Block G - 3 Classroom Block			
	Bill No. 8			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No	Quantity	Rate	Amount
<b>BILL NO. 10</b>			
<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b>Carried to Collection</b>			R
Block G - 3 Classroom Block Bill No. 10 Ironmongery (Provisional)			

**LOCKS**

Manufactured by "Union"

- 1 Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles

No

3

**SUNDRIES**

Manufactured by "Union"

- 2 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw

No

3

**PINNING BOARDS, WRITING BOARDS,  
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

- 3 Standard green enamel megnatic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged

No

3

- 4 Pinning board size 2400 x 1200mm high plugged

No

3

**Carried to Collection**

R

Block G - 3 Classroom Block  
Bill No. 10  
Ironmongery (Provisional)

Section No. 4

Bill No. 10

Ironmongery (Provisional)

**COLLECTION**

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Block G - 3 Classroom Block  
Bill No. 10  
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>METALWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Descriptions of bolts, anchors, etc</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>			
<u>Welded screens and gates</u>			
1	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	3
<b><u>GALVANISED STEEL MINOR WORK</u></b>			
<u>Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors</u>			
2	100mm Diameter galvanised mild steel support post with timber beam over to support roof above (Timber beam and roof elsewhere)	m	8
<b>Carried to Collection</b>			R
Block G - 3 Classroom Block			
Bill No. 11			
Metalwork (Provisional)			

## GALVANISED STEEL WINDOWS, DOORS, ETC

'Duro Pressing' or other approved standard hot dipped galvanised school type windows fitted with and including 19mm mild steel flat bar burglar proofing to opening sections

3	Window size, 1500 x 1200mm high
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No

1

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 11  
Metalwork (Provisional)

R

Section No. 4

Bill No. 11

Metalwork (Provisional)

**COLLECTION**

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Block G - 3 Classroom Block  
Bill No. 11  
Metalwork (Provisional)

R

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PLASTERING (PROVISIONAL)</u></b>			
	<b><u>SCREEDS</u></b>			
	<u>Screeds steel trowelled, on concrete</u>			
1	30mm Thick on floors and landings	m2	236	
	<b><u>GRANOLITHIC</u></b>			
	<u>Untinted granolithic, on concrete</u>			
2	30mm Thick on floors and landings	m2	49	
	<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster steel trowelled, on brickwork</u>			
3	On walls	m2	234	
4	On narrow widths	m2	9	
	<b><u>EXTERNAL PLASTER</u></b>			
	<u>Cement plaster steel trowelled, on brickwork</u>			
5	External plaster from walls	m2	170	
6	On narrow widths	m2	9	
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	Block G - 3 Classroom Block			
	Bill No. 12			
	Plastering (Provisional)			

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 13</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>			
Block G - 3 Classroom Block			
Bill No. 13			
Plumbing and Drainage (Provisional)			



Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 13  
Plumbing and Drainage (Provisional)

R

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	53
2	100mm Diameter rainwater pipes	m	41
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	6
5	Extra over rainwater pipe for bend	No	12
6	Extra over rainwater pipe for plinth bend	No	6
7	Extra over rainwater pipe for shoe	No	2
8	Extra over rainwater pipe for eaves or plinth offset	No	6

**STORMWATER CHANNELS**

Earthworks

9	Excavate average 125mm deep in earth to form "V" drain profile	m3	11
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**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 13  
Plumbing and Drainage (Provisional)

R

## Khamangwa High School General Repairs and Renovations

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Section No. 4

Bill No. 13

Plumbing and Drainage (Provisional)

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Block G - 3 Classroom Block

Bill No. 13

Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 13</u></b>			
<b><u>ELECTRICAL WORK (PROVISIONAL)</u></b>			
<b><u>BLOCK G</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Distribution boards etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
<u>Switches, socket outlets, etc</u>			
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
<u>Light fittings</u>			
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
<b><u>LOW TENSION DISTRIBUTION</u></b>			
<b><u>DISTRIBUTION BOARD DB</u></b>			
1	Flush mounted distribution board in one section (uninterruptable power) with door, space for the following equipment and space for 6 additional circuit breakers, colour coded and installed in recess (elsewhere) in brick wall	No 1	
2	60A Triple pole isolator	No 1	
3	10A Single pole MCCB (5kA)	No 5	
<b><u>CABLES</u></b>			
4	1.5mm² 3-Core	m 210	
<b>Carried to Collection</b>			R
Block G - 3 Classroom Block Bill No. 14 Electrical work (Provisional)			

**Khamangwa High School**  
**General Repairs and Renovations**

5	2.5mm <sup>2</sup> 3-Core	m	80		
6	16mm <sup>2</sup> 3-Core	m	60		
	<u>Cable joints</u>				
7	1.5mm <sup>2</sup> 3-Core	No	2		
8	2.5mm <sup>2</sup> 3-Core	No			
9	16mm <sup>2</sup> 3-Core	No	2		
	<u>Cable terminations</u>				
10	1.5mm <sup>2</sup> 3-Core	No	40		
11	2.5mm <sup>2</sup> 3-Core	No	40		
12	16mm <sup>2</sup> 3-Core	No	2		
	<b><u>EARTH CONDUCTORS</u></b>				
	<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
	<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
13	6mm <sup>2</sup>	m	60		
	<b><u>CABLE TRENCHES</u></b>				
14	Excavation in earth not exceeding 2m deep for cable trenches including risk of collapse of excavations, keeping excavations free from water, setting aside excavated material and later refilling of trenches	m3	10		
15	Extra over trench excavations in earth for excavation in soft rock	m3	3		
16	Extra over trench excavations in earth for excavation in hard rock	m3	3		
17	Extra over trench excavations for carting away surplus material to a dumping site to be located by the contractor	m3	2		
	<b>Carried to Collection</b>			R	
	Block G - 3 Classroom Block				
	Bill No. 14				
	Electrical work (Provisional)				

**SUNDRIES**

18	Concrete block cable marker with inscribed aluminium or brass indicator plate	No	3
19	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1

**GENERAL LIGHTING AND POWER**

**CONDUITS ETC**

Rigid PVC conduits

20	20mm Diameter	m	290
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PVC conduit accessories

21	Round outlet box for 20mm conduit	No	29
22	Deep type (concrete type) round outlet box for 20mm conduit	No	29
23	Standard draw box for 20mm conduit	No	29
24	50 x 100 x 50mm Outlet box	No	29
25	100 x 100 x 50mm Outlet box	No	29
26	100 x 100 x 50mm Outlet box with blank cover plate	No	29

**CONDUCTORS**

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

27	1.5mm <sup>2</sup>	m	290
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**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

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Section No. 4

Bill No. 14

Electrical work (Provisional)

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Block G - 3 Classroom Block  
Bill No. 14  
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<b>BILL NO. 15</b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
		R	
<b>Carried to Collection</b>			
Block G - 3 Classroom Block Bill No. 16 Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	243		
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**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

2	Walls	m2	179		
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**ON PLASTERBOARD SURFACES**

One coat primer, one universal undercoat and two coats exterior quality "Cemote" pva paint

3	Ceilings and cornices	m2	187		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

4	Fascias and barge boards, including priming metal jointing strips	m2	38		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	10		
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6	Laminated beam	m2	19		
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**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

R

**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK**

**ON METAL SURFACES**

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

7	Windows	m2	49
8	Barglar bars	m2	58
9	Door frame	m2	6

**Carried to Collection**

Block G - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

R

Section No. 4

Bill No. 16

Paintwork (Provisional)

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Block G - 3 Classroom Block  
Bill No. 16  
Paintwork (Provisional)

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Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p>			
<p><b>Carried to Collection</b></p>			R
<p>Block H &amp; F - 8 Classroom Block  Bill No. 1  Alterations (Provisional)</p>			



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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

Removal of materials

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

Removal of asbestos material

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

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

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

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

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

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 1  
Alterations (Provisional)

R

**REMOVAL OF EXISTING WORK**

Breaking up and removing unreinforced concrete

1	Steps	m3	3
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Breaking up and removing unreinforced concrete

2	100mm Thick surface beds	m2	254
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Breaking down and removing brickwork etc

3	One brick walls	m2	8
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Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)

4	Timber single door not exceeding 2,5m <sup>2</sup>	No	10
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5	Servicing of existing steel windows with new hinges, latches etc	No	40
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

6	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	388
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7	Barge boards	m	46
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8	Fascia boards	m	121
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9	Eaves gutters	m	121
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10	Rainwater pipes	m	41
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Taking out and removing ironmongery

11	Remove existing pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	8
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12	Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	8
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Taking out/off and removing sundry metalwork

13	Steel single leaf security gate not exceeding 2,5m <sup>2</sup>	No	8
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**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 1  
Alterations (Provisional)

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Section No. 5

Bill No. 1

Alterations (Provisional)

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Block H & F - 8 Classroom Block

Bill No. 1

Alterations (Provisional)

R

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**WEED KILLERS, INSECTICIDES, ETC**

Soil insecticide in accordance with SANS 5859

7	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	143	
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**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R

Section No. 5

Bill No. 2

Earthworks (Provisional)

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Block H & F - 8 Classroom Block  
Bill No. 2  
Earthworks (Provisional)

R



Item No	Quantity	Rate	Amount
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Cost of tests</u>			
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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
<u>Formwork</u>			
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			
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"			
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	23
<b>Carried to Collection</b>			R
Block H & F - 8 Classroom Block			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

**TEST CUBES**

- 2 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)

No

2

**CONCRETE SUNDRIES**

Finishing top surfaces of concrete smooth with a steel trowel

- 3 Surface beds, slabs, etc

m2

143

**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

Rough formwork to sides

- 4 Edges, risers, ends and reveals not exceeding 300mm high or wide

m

147

**REINFORCEMENT**

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

188

**Carried to Collection**

Block H & F - 8 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

Section No. 5  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

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Block H & F - 8 Classroom Block  
Bill No. 3  
Concrete, Formwork and Reinforcement (Provisional)

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Item No		Quantity	Rate	Amount
<b><u>BILL NO. 5</u></b>				
<b><u>CARPENTRY AND JOINERY</u></b>				
<b><u>(PROVISIONAL)</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<u>Fixing</u>				
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
<u>Joinery</u>				
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
<b><u>ROOFS ETC</u></b>				
<u>Sundries</u>				
1	Wrought faces on sawn timbers	m2	116	
2	Two coats creosote on sawn timbers	m2	126	
<b><u>EAVES, VERGES, ETC</u></b>				
<u>Medium density plain fibre-cement fascias and barge boards</u>				
3	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	46	
<b>Carried to Collection</b>				R
Block H & F - 8 Classroom Block Bill No. 5 Carpentry and Joinery (Provisional)				

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Bill No. 5

Carpentry and Joinery (Provisional)

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Block H & F - 8 Classroom Block

Bill No. 5

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 6</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<b><u>Proprietary items or materials</u></b>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b><u>NAILED-UP CEILINGS</u></b>			
	<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres	m2	395	
2	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	8	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	246	
	<b>Carried Forward to Summary of Section No. 5</b>			
	Block H & F - 8 Classroom Block			
	Bill No. 6			
	Ceilings, Partitions and Access Flooring (Provisional)			

R



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Item No	Quantity	Rate	Amount
<b>BILL NO. 8</b>			
<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b>Carried to Collection</b>			R
Block H & F - 8 Classroom Block Bill No. 8 Ironmongery (Provisional)			

**LOCKS**

Manufactured by "Union"

- |   |   |    |    |  |
|---|---|----|----|--|
| 1 | Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles | No | 10 |  |
|---|---|----|----|--|

**SUNDRIES**

Manufactured by "Union"

- |   |   |    |    |  |
|---|---|----|----|--|
| 2 | 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw | No | 10 |  |
|---|---|----|----|--|

**PINNING BOARDS, WRITING BOARDS,  
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

- |   |   |    |   |  |
|---|---|----|---|--|
| 3 | Standard green enamel megnatic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged | No | 8 |  |
| 4 | Pinning board size 2400 x 1200mm high plugged   | No | 8 |  |

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 8  
Ironmongery (Provisional)

R

Section No. 5

Bill No. 8

Ironmongery (Provisional)

**COLLECTION**

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Block H & F - 8 Classroom Block

Bill No. 8

Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 10</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>			
Block H & F - 8 Classroom Block			
Bill No. 10			
Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 10  
Plumbing and Drainage (Provisional)

R

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	121
2	100mm Diameter rainwater pipes	m	41
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	12
5	Extra over rainwater pipe for bend	No	24
6	Extra over rainwater pipe for plinth bend	No	2
7	Extra over rainwater pipe for eaves or plinth offset	No	2

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 10  
Plumbing and Drainage (Provisional)

R



**STORMWATER CHANNELS**

Earthworks

8	Excavate average 125mm deep in earth to form "V" drain profile	m3	19	
---	--	----	----	--

Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

9	"V" drains	m3	19	
10	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	143	
11	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	147	
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	143	
13	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	139	

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 10  
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Bill No. 10

Plumbing and Drainage (Provisional)

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Block H & F - 8 Classroom Block

Bill No. 10

Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>ELECTRICAL WORK (PROVISIONAL)</u></b>			
<b><u>BLOCK F &amp; H</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Distribution boards etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
<u>Switches, socket outlets, etc</u>			
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
<u>Light fittings</u>			
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
<b><u>LOW TENSION DISTRIBUTION</u></b>			
<b><u>DISTRIBUTION BOARD DB</u></b>			
1	Flush mounted distribution board in one section (uninterruptable power) with door, space for the following equipment and space for 6 additional circuit breakers, colour coded and installed in recess (elsewhere) in brick wall	No 2	
2	60A Triple pole isolator	No 2	
3	10A Single pole MCCB (5kA)	No 10	
<b><u>CABLES</u></b>			
4	1.5mm² 3-Core	m 540	
<b>Carried to Collection</b>			R
Block H & F - 8 Classroom Block Bill No. 11 Electrical work (Provisional)			

**Khamangwa High School**  
**General Repairs and Renovations**

5	2.5mm <sup>2</sup> 3-Core	m	200		
6	16mm <sup>2</sup> 3-Core	m	120		
	<u>Cable joints</u>				
7	1.5mm <sup>2</sup> 3-Core	No	4		
8	2.5mm <sup>2</sup> 3-Core	No			
9	16mm <sup>2</sup> 3-Core	No	4		
	<u>Cable terminations</u>				
10	1.5mm <sup>2</sup> 3-Core	No	80		
11	2.5mm <sup>2</sup> 3-Core	No	80		
12	16mm <sup>2</sup> 3-Core	No	4		
	<b><u>EARTH CONDUCTORS</u></b>				
	<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
	<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>				
13	6mm <sup>2</sup>	m	120		
	<b><u>CABLE TRENCHES</u></b>				
14	Excavation in earth not exceeding 2m deep for cable trenches including risk of collapse of excavations, keeping excavations free from water, setting aside excavated material and later refilling of trenches	m3	20		
15	Extra over trench excavations in earth for excavation in soft rock	m3	6		
16	Extra over trench excavations in earth for excavation in hard rock	m3	6		
17	Extra over trench excavations for carting away surplus material to a dumping site to be located by the contractor	m3	4		
	<b>Carried to Collection</b>			R	
	Block H & F - 8 Classroom Block				
	Bill No. 11				
	Electrical work (Provisional)				

**Khamangwa High School**  
**General Repairs and Renovations**

**SUNDRIES**

18	Concrete block cable marker with inscribed aluminium or brass indicator plate	No	6
19	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	2

**GENERAL LIGHTING AND POWER**

**CONDUITS ETC**

Rigid PVC conduits

20	20mm Diameter	m	740
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PVC conduit accessories

21	Round outlet box for 20mm conduit	No	74
22	Deep type (concrete type) round outlet box for 20mm conduit	No	74
23	Standard draw box for 20mm conduit	No	74
24	50 x 100 x 50mm Outlet box	No	74
25	100 x 100 x 50mm Outlet box	No	74
26	100 x 100 x 50mm Outlet box with blank cover plate	No	74

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 11  
Electrical work (Provisional)

R

**CONDUCTORS**

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

27	1.5mm <sup>2</sup>	m	580	
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**DRAW-WIRES**

28	Galvanised steel draw-wires drawn into conduit	m	580	
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**LIGHT SWITCHES, SOCKET OUTLETS, ETC**

29	Flush mounted bell push button	No	2	
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30	16A Flush mounted one lever one-way switch unit	No	8	
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31	16A Flush mounted two lever one-way switch unit	No	2	
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32	16A Three pin flush mounted socket outlet with switch, single type	No	20	
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**LUMINAIRES**

33	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	54	
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**SUNDRIES**

34	Earthing of buildings		Item	
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35	Provision of as built drawings		Item	
----	--------------------------------	--	------	--

36	Testing and commissioning the complete electrical installation		Item	
----	--	--	------	--

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 11  
Electrical work (Provisional)

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Bill No. 11

Electrical work (Provisional)

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Block H & F - 8 Classroom Block

Bill No. 11

Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<b>BILL NO. 13</b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
<b>Carried to Collection</b>			R
Block H & F - 8 Classroom Block Bill No. 13 Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	463		
---	-------	----	-----	--	--

**ON PLASTERBOARD SURFACES**

One coat primer, one universal undercoat and two coats exterior quality "Cemote" pva paint

2	Ceilings and cornices	m2	395		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

3	Fascias and barge boards, including priming metal jointing strips	m2	82		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Doors	m2	23		
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**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 13  
Paintwork (Provisional)

R

**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK**

**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

5	Walls	m2	194		
---	-------	----	-----	--	--

**ON METAL SURFACES**

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

6	Door frames	m2	23		
---	-------------	----	----	--	--

7	Windows with burglar bars	m2	158		
---	---------------------------	----	-----	--	--

8	Steel support posts	m2	9		
---	---------------------	----	---	--	--

**ON WOOD SURFACES**

Two coats oil wood primer

9	Laminated beam	m2	51		
---	----------------	----	----	--	--

**Carried to Collection**

Block H & F - 8 Classroom Block  
Bill No. 13  
Paintwork (Provisional)

R

Section No. 5

Bill No. 13

Paintwork (Provisional)

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Block H & F - 8 Classroom Block  
Bill No. 13  
Paintwork (Provisional)

R

# Khamangwa High School

## General Repairs and Renovations

Bill No	SECTION SUMMARY - Block H & F - 8 Classroom Block	Page No	Amount
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4	Masonry (Provisional)	188	
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6	Ceilings, Partitions and Access Flooring (Provisional)	192	
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13	Paintwork (Provisional)	212	
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Block H & F - 8 Classroom Block			

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p>			
<p><b>Carried to Collection</b></p>			<p>R</p>
<p>Block A, I &amp; J - Flashing Toilets</p> <p>Bill No. 1</p> <p>Alterations (Provisional)</p>			

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 1  
Alterations (Provisional)

R

<u>Removal of materials</u>					
Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.					
<b><u>REMOVAL OF EXISTING WORK</u></b>					
<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)</u>					
1	Timber single door and frame not exceeding 2,5m <sup>2</sup>	No	12		
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
2	Barge boards	m	42		
3	Fascia boards	m	22		
4	Eaves gutters	m	22		
<u>Servicing of existing metalwork</u>					
5	Servicing of existing steel security gate, size 900 x 2100 high	No	2		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>					
6	30mm Screed from floors	m2	56		
7	Internal plaster from walls and columns	m2	24		
8	External plaster from walls and columns	m2	8		
<u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>					
9	PVC piping not exceeding 50mm diameter	m	75		
<b>Carried to Collection</b>				R	
Block A, I & J - Flashing Toilets					
Bill No. 1					
Alterations (Provisional)					



## Khamangwa High School General Repairs and Renovations

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Section No. 6

Bill No. 1

Alterations (Provisional)

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Block A, I & J - Flashing Toilets

Bill No. 1

Alterations (Provisional)

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**TIMBER DOORS, WINDOWS, ETC**

Wrought meranti doors hung to timber frames

3	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	3
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Semi-solid flush doors with commercial veneer suitable for painting

4	44mm Door 813 x 2032mm high	No	9
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**FRAMES ETC**

FRAMED FRAMES, MULLIONS, TRANSOMS, ETC

Wrought

5	Rebated frame for 813 x 2032mm high door	No	12
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**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 2  
Carpentry and Joinery (Provisional)

R

Section No. 6

Bill No. 2

Carpentry and Joinery (Provisional)

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Block A, I & J - Flashing Toilets  
Bill No. 2  
Carpentry and Joinery (Provisional)

R

Item No	Quantity	Rate	Amount
<b>BILL NO. 3</b>			
<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<b><u>Proprietary items or materials</u></b>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<b>Carried to Collection</b>			R
Block A, I & J - Flashing Toilets Bill No. 3 Ironmongery (Provisional)			

**HINGES, BOLTS, ETC**

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	24
2	WC chrome plated indicator bolt	No	9

**LOCKS**

Manufactured by "Union"

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	3
4	50mm Solid brass padlock	No	2

**SUNDRIES**

Manufactured by "Union"

5	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	12
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**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 3  
Ironmongery (Provisional)

R

Section No. 6

Bill No. 3

Ironmongery (Provisional)

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Block A, I & J - Flashing Toilets  
Bill No. 3  
Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 5</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>		R	
Block A, I & J - Flashing Toilets			
Bill No. 5			
Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 5  
Plumbing and Drainage (Provisional)

R

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	22
2	100mm Diameter rainwater pipes	m	9
3	Extra over gutter for stopped end	No	6
4	Extra over gutter for outlet for 100mm pipe	No	3
5	Extra over rainwater pipe for bend	No	9
6	Extra over rainwater pipe for shoe	No	3

**Carried to Collection**

Block A, I & J - Flashing Toilets  
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Plumbing and Drainage (Provisional)

R

### **STORMWATER CHANNELS**

#### Earthworks

- |   |  |    |    |
|---|--|----|----|
| 7 | Excavate average 125mm deep in earth to form "V" drain profile | m3 | 10 |
|---|--|----|----|

#### Concrete, Formwork and Reinforcing

#### 25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

- |    |  |    |    |
|----|--|----|----|
| 8  | "V" drains   | m3 | 10 |
| 9  | Finishing top surface of "V" drains smooth with a steel trowel to falls  | m2 | 76 |
| 10 | Rough formwork to edges, risers, ends and reveals not exceeding 300mm high or wide                             | m  | 88 |
| 11 | Type 193 fabric reinforcement in concrete surface beds etc   | m2 | 76 |
| 12 | 10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete | m  | 64 |

### **SANITARY FITTINGS**

#### "Vaal" or other equal and approved

- |    |   |    |    |
|----|---|----|----|
| 13 | 455 x 290mm "Bantam" 7030 cloakroom basin bolted to wall  | No | 9  |
| 14 | "Hibiscus" 772602 close-coupled WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern | No | 10 |
| 15 | "Flatback" 705326 wall urinal with spreader, waste union, and FJT5.5 flushpipe (flush valve elsewhere)                        | No | 3  |

**Carried to Collection**

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Plumbing and Drainage (Provisional)

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**WASTE UNIONS ETC**

"Cobra Watertech" or other equal and approved

16	32mm 301 CP basin waste union	No	9
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**TRAPS ETC**

17	75mm VA3.113 CP hinged urinal domical grating	No	3
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18	50mm 345 CP bottle trap	No	9
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**TAPS, VALVES, ETC**

"Cobra Watertech" or other equal and approved

19	15mm 1065-15CP fullway isolating ball valve	No	22
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20	15mm 111-15CP pillar tap	No	9
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21	FJ6.000CP "Flushmaster Junior" urinal flush valve	No	3
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**SANITARY PLUMBING**

uPVC soil and vent pipes

22	50mm Pipes	m	75
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23	110mm Pipes	m	45
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Extra over uPVC soil and vent pipes for fittings

24	110mm Pan connector	No	10
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25	50mm Bend	No	60
----	-----------	----	----

26	110mm Bend	No	30
----	------------	----	----

27	50mm Junction	No	15
----	---------------	----	----

28	110mm Junction	No	12
----	----------------	----	----

29	50mm Access bend	No	15
----	------------------	----	----

30	110mm Access bend	No	12
----	-------------------	----	----

31	50mm Access junction	No	8
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**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 5  
Plumbing and Drainage (Provisional)

R

**WATER SUPPLIES**

Class 1 copper pipes with capillary couplings

32	15mm Pipes	m	80
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33	22mm Pipes	m	40
----	------------	---	----

Extra over Class 1 copper pipes for capillary fittings

34	15mm Fittings	No	60
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35	22mm Fittings	No	30
----	---------------	----	----

Testing

36	Testing water pipe system		Item
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Bill No. 5  
Plumbing and Drainage (Provisional)

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Section No. 6

Bill No. 5

Plumbing and Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<b>BILL NO. 7</b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
<b>Carried to Collection</b>			R
Block A, I & J - Flashing Toilets Bill No. 7 Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	24		
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**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

2	Walls	m2	8		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

3	Fascias and barge boards, including priming metal jointing strips	m2	69		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Doors	m2	42		
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5	Door frames etc	m2	14		
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**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

6	Walls	m2	272		
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**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 7  
Paintwork (Provisional)

R

**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat  
and two coats quality Pva paint

7	Walls	m2	167
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**Carried to Collection**

Block A, I & J - Flashing Toilets  
Bill No. 7  
Paintwork (Provisional)

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Paintwork (Provisional)

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SECTION SUMMARY - Block A, I & J - Flashing Toilets					Amount
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2	Carpentry and Joinery (Provisional)	221			
3	Ironmongery (Provisional)	224			
4	Plastering (Provisional)	225			
5	Plumbing and Drainage (Provisional)	232			
6	Glazing (Provisional)	233			
7	Paintwork (Provisional)	237			
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Block A, I & J - Flashing Toilets				R	

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

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

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

**Carried to Collection**

Block E & K - Pits Toilets  
Bill No. 1  
Alterations (Provisional)

R



<u>Removal of materials</u>					
Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.					
<b><u>REMOVAL OF EXISTING WORK</u></b>					
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
1	IBR roof sheets, including all timber purlins, fixings, etc.	m2	54		
2	Timber rafters including wall plates	m	85		
<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)</u>					
3	Timber single door and frame not exceeding 2,5m <sup>2</sup>	No	12		
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
4	Barge boards	m	30		
5	Fascia boards	m	17		
6	Eaves gutters	m	17		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>					
7	30mm Screed from floors	m2	54		
8	Internal plaster from walls and columns	m2	205		
9	External plaster from walls and columns	m2	181		
<b>Carried to Collection</b>					
Block E & K - Pits Toilets					
Bill No. 1					
Alterations (Provisional)					

# Khamangwa High School

## General Repairs and Renovations

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Section No. 7

Bill No. 1

Alterations (Provisional)

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Block E & K - Pits Toilets

Bill No. 1

Alterations (Provisional)

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Section No. 7

Bill No. 2

Carpentry and Joinery (Provisional)

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Block E & K - Pits Toilets

Bill No. 2

Carpentry and Joinery (Provisional)

R

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Item No		Quantity	Rate	Amount
	<b>BILL NO. 4</b>  <b><u>IRONMONGERY (PROVISIONAL)</u></b>  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  <u>Proprietary items</u>  Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items  Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered  On request returnable samples are to be provided to the principal agent for consideration  <u>Finishes to ironmongery</u>  Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded  <b><u>Proprietary items or materials</u></b>  Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<b>Carried to Collection</b>		R	
	Block E & K - Pits Toilets Bill No. 4 Ironmongery (Provisional)			



**HINGES, BOLTS, ETC**

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	14
2	WC chrome plated indicator bolt	No	12

**LOCKS**

Manufactured by "Union"

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	2
4	50mm Solid brass padlock	No	2

**SUNDRIES**

Manufactured by "Union"

5	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	14
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**Carried to Collection**

Block E & K - Pits Toilets  
Bill No. 4  
Ironmongery (Provisional)

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Section No. 7

Bill No. 4

Ironmongery (Provisional)

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Bill No. 4

Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>			
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>(PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
<b>Carried to Collection</b>			
Block E & K - Pits Toilets			
Bill No. 6			
Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**Carried to Collection**

Block E & K - Pits Toilets  
Bill No. 6  
Plumbing and Drainage (Provisional)

R

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	17
2	100mm Diameter rainwater pipes	m	6
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	2
5	Extra over rainwater pipe for bend	No	6
6	Extra over rainwater pipe for shoe	No	2

**Carried to Collection**

Block E & K - Pits Toilets  
Bill No. 6  
Plumbing and Drainage (Provisional)

R

**STORMWATER CHANNELS**

Earthworks

7	Excavate average 125mm deep in earth to form "V" drain profile	m3	7
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Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

8	"V" drains	m3	7
---	------------	----	---

9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	54
---	---	----	----

10	Rough formwork to edges, risers, ends and reveals not exceeding 300mm high or wide	m	62
----	--	---	----

11	Type 193 fabric reinforcement in concrete surface beds etc	m2	54
----	--	----	----

12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	62
----	--	---	----

**SANITARY FITTINGS**

Jojo

13	Plastic toilet seat pedestal	No	12
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**SANITARY PLUMBING**

uPVC soil and vent pipes

14	110mm Vent pipes	m	36
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15	110mm Air vent cowl	No	12
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**Carried to Collection**

Block E & K - Pits Toilets  
Bill No. 6  
Plumbing and Drainage (Provisional)

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Plumbing and Drainage (Provisional)

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<b><u>BILL NO. 7</u></b>			
<b><u>PAINTWORK (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>PAINT SPECIFICATIONS</u></b>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<b><u>COLOURS</u></b>			
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
<b>Carried to Collection</b>			R
Block E & K - Pits Toilets			
Bill No. 7			
Paintwork (Provisional)			

**PAINTWORK ETC TO NEW WORK**

**ON INTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

1	Walls	m2	205		
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**ON EXTERNAL FLOATED PLASTER SURFACES**

One coat alkali resistant primer, one universal undercoat and two coats quality Pva paint

2	Walls	m2	179		
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**ON FIBRE-CEMENT BOARD SURFACES**

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

3	Fascias and barge boards, including priming metal jointing strips	m2	51		
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**ON WOOD SURFACES**

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Doors	m2	49		
---	-------	----	----	--	--

5	Door frames etc	m2	16		
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**Carried to Collection**

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Paintwork (Provisional)

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Paintwork (Provisional)

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3	Roof Coverings (Provisional)	247	
4	Ironmongery (Provisional)	250	
5	Plastering (Provisional)	251	
6	Plumbing and Drainage (Provisional)	256	
7	Paintwork (Provisional)	259	
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Block E & K - Pits Toilets			

Item No		Quantity	Rate	Amount
	<b><u>GUARD HOUSE : NEW</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	105	
	<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>			
	<b><u>EXCAVATIONS, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	7	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1	
4	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	4	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	19	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item		
	<b>Carried to Collection</b>		R	
	Block I - Guard House			
	Bill No. 1			
	Guard House			

**FILLING ETC**

G5 Filling supplied by the contractor, compacted to 90% Mod AASHTO density

8	Under floors, steps, pavings, etc	m3	1	
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Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density

9	Backfilling to trenches, holes, etc	m3	2	
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Compaction of surfaces

10	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 98% Mod AASHTO density	m2	8	
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**SOIL POISONING**

Soil insecticide in accordance with SANS 5859

11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	8	
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12	To bottoms and sides of trenches etc	m2	29	
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**CONCRETE, FORMWORK AND REINFORCEMENT**

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

25MPa/19mm concrete

13	Strip footings	m3	2	
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14	Surface beds on waterproofing	m3	1	
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**TEST CUBES**

15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2	
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**Carried to Collection**

Block I - Guard House  
Bill No. 1  
Guard House

R

**REINFORCEMENT (PROVISIONAL)**

Fabric reinforcement

16	Type 193 fabric reinforcement in concrete surface beds etc	m2	8		
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**MASONRY**

**BRICKWORK**

**FOUNDATIONS (PROVISIONAL)**

Brickwork of NFP bricks in class II mortar

17	One brick walls	m2	10		
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**SUPERSTRUCTURE**

Brickwork of NFP bricks in class II mortar

18	Piers	m3	0.2		
19	One brick walls	m2	20		

**BRICKWORK SUNDRIES**

2,5mm Galvanised brick reinforcement

20	150m Wide reinforcement built in horizontally	m	50		
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Prestressed fabricated concrete lintels including necessary temporary supports

21	110 x 75mm Lintels in lengths not exceeding 3m	m	4		
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Galvanised wire ties etc

22	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	18		
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Air bricks etc

23	229 x 152mm Clay vermin proof air brick	No	3		
24	233 x 175mm Foam plastic air vent	No	3		

**Carried to Collection**

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**QUARRY TILES**

150 x 150 x 25mm Quarry tiles on brickwork with continuous joints in one direction and pointed on all exposed surfaces

25	150mm Wide sills set flat and slightly projecting	m	4	
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**WATERPROOFING**

**DAMPPROOFING OF WALLS AND FLOORS**

One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)

26	In walls	m2	3	
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One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape

27	Under surface beds	m2	9	
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**SEALING STRIPS, JOINT SEALANTS, ETC**

"Bostik" clear silicone sealing compound

28	In expansion joints in floors including raking out expansion joint filler as necessary	m	16	
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**Carried to Collection**

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## **ROOF COVERINGS**

### **PROFILED METAL SHEETING AND ACCESSORIES**

0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)

29	Roof covering with pitches not exceeding 25 degrees	m2	20
30	Ridge cappings 475mm girth	m	2
31	Hip cappings 475mm girth	m	9

### **ROOF AND WALL INSULATION**

Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m<sup>2</sup> and a Class I fire rating in accordance with SANS 0177-3

32	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	20
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### **CARPENTRY AND JOINERY**

#### **ROOFS ETC**

#### **PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC**

#### **SUPPLEMENTARY PREAMBLES**

Trusses are at maximum 1200mm centres

**Carried to Collection**

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[illegible]

### **TIMBER DOORS, WINDOWS, ETC**

Wrought meranti doors hung to timber frames

37	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	1
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### **FITTINGS**

38	Counter/cupboard 2000 x 900mm high with top, sides, bottom, division, shelf, back and hinged doors, dividing framework and drawers etc.	No	1
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### **CEILINGS, PARTITIONS AND ACCESS FLOORING**

#### **NAILED-UP CEILINGS**

6.4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips

39	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	8
40	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	1
	<u>Gypsum plasterboard cornices</u>		
41	75mm Coved cornices	m	16

**Carried to Collection**

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Guard House

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**FLOOR COVERINGS, WALL LININGS, ETC**  
**(PROVISIONAL)**

**FLOOR COVERINGS**

300 x 300 x 2.5mm Semi flexible vinyl tiles

42	On floors	m2	5	
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Vinyl skirtings, nosings, etc

43	70mm High vinyl skirting	m	8	
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**POLISH, SEALERS, ETC**

44	Three coats wax polish on vinyl flooring	m2	5	
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**IRONMONGERY**

**LOCKS**

Manufactured by "Union"

45	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	1	
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**SUNDRIES**

Manufactured by "Union"

46	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	1	
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**Carried to Collection**

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Guard House

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## **METALWORK**

### **GALVANISED STEEL GATES, SCREENS, ETC**

Welded screens and gates

47	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	1
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### **GALVANISED PRESSED STEEL DOOR FRAMES**

1,2mm Double rebated frames suitable for one brick walls

48	Frame for door 813 x 2032mm high	No	1
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### **GALVANISED STEEL WINDOWS, DOORS, ETC**

'Duro Pressing' or other approved standard hot dipped galvanised school type windows fitted with and including 19mm mild steel flat bar burglar proofing to opening sections

49	Window size, 1022 x 949mm high	No	2
50	Window size, 1511 x 949mm high	No	1

## **PLASTERING**

### **SCREEDS**

Screeds steel trowelled, on concrete

51	30mm Thick on floors and landings	m2	8
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### **GRANOLITHIC**

Untinted granolithic, on concrete

52	30mm Thick on floors and landings	m2	3
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**Carried to Collection**

Block I - Guard House  
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**INTERNAL PLASTER**

Cement plaster steel trowelled, on brickwork

53	On walls	m2	17
54	On narrow widths	m2	1

**EXTERNAL PLASTER**

Cement plaster wood floated, on brickwork

55	On walls	m2	28
56	On narrow widths	m2	1

**PLUMBING AND DRAINAGE**  
**(PROVISIONAL)**

**RAINWATER DISPOSAL**

Seamless aluminium prepainted gutters and rainwater pipes

57	150mm Half-round roof gutters with beaded front edge	m	17
58	100mm Diameter rainwater pipes	m	8
59	Extra over gutter for outlet for 100mm pipe	No	2
60	Extra over rainwater pipe for bend	No	6
61	Extra over rainwater pipe for shoe	No	2

**STORMWATER CHANNELS**

Earthworks

62	Excavate average 125mm deep in earth to form "V" drain profile	m3	3
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Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

63	"V" drains	m3	3
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**Carried to Collection**

Block I - Guard House  
Bill No. 1  
Guard House

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64	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	22
65	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	26
66	Type 193 fabric reinforcement in concrete surface beds etc	m2	22
67	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	18
<b><u>GLAZING</u></b>			
<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
<u>4mm Clear float glass</u>			
68	Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup>	m2	3
<b><u>PAINTWORK</u></b>			
<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>			
69	Walls	m2	18
<b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
70	Walls	m2	29

**Carried to Collection**

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**ON PLASTERBOARD SURFACES**

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

71	Ceilings and cornices	m2	8	
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**ON FIBRE-CEMENT BOARD SURFACES**

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

72	Fascias and barge boards, including priming metal jointing strips	m2	8	
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**ON WOOD SURFACES**

Three coats superior quality clear matt varnish

73	Doors	m2	3	
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**Carried to Collection**

Block I - Guard House  
Bill No. 1  
Guard House

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Section No. 8

Bill No. 1

Guard House

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

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**Carried to Final Summary**

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Block I - Guard House  
Bill No. 1  
Guard House

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 1</u></b>			
<b><u>EXTERNAL WORK</u></b>			
<b><u>TEMPORARY PARKHOMES</u></b>			
<u>"M-Projects" or other equal approved temporary parkhome unit</u>			
Rates for the following Parkhomes to include standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings and green chalk boards:			
1	No	3	
Provide standard classroom size 7000 x 7000mm temporary parkhomes or nearest size on site for rental and maintenance for educational facilities during construction phase including levelling, positioning on site and connection to an electrical supply including issuing of compliance certificates for a period of 20 months and removal after construction period expires.			
2	No	3	
Transport to and from site of parkhomes as per distance between supplier and site			
<b><u>EXTERNAL WORKS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>View site</u>			
Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated			
<b>Carried to Collection</b>			R
External Work Bill No. 1 External Work			

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

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

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items

Removal of materials

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

**REMOVAL OF EXISTING WORK**

Taking down and removing existing fence

- |   |  |   |     |
|---|--|---|-----|
| 3 | Security wire fence with pedestrians and vehicles gates including removing fence and gates posts | m | 375 |
|---|--|---|-----|

**LANDSCAPING**

**Note: Landscaping to be completed at least three months before final completion of the project for maintenance allowance**

Excavate in earth and dispose on site

- |   |   |    |    |
|---|---|----|----|
| 4 | Not exceeding 150mm deep to remove humps, form shallow ditches, etc | m2 | 20 |
|---|---|----|----|

**Carried to Collection**

External Work  
Bill No. 1  
External Work

R

	<u>Ground preparation</u>				
5	Cultivation and preparation of areas to be planted	m2	20		
	<u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling</u>				
6	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	1		
	<u>Grassing, ground covers, etc</u>				
7	"Kikuyu" rolls or similar approved 50mm thick	m2	20		
	<u>Maintenance</u>				
8	Allow for maintaining landscaping for a period of 2 months, including watering, weeding, cutting, replacing dead plants, etc			Item	
<b><u>ROADWORK, PARKING AREAS AND PAVING</u></b>					
<b><u>SUPPLEMENTARY PREAMBLES</u></b>					
	<u>Testing of material and filling</u>				
	Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series				
	<u>Site clearance</u>				
9	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	740		
	<u>Excavation in earth not exceeding 2m deep</u>				
10	Reduced levels under floors	m3	318		
	<u>Extra over bulk excavation in earth for excavation in</u>				
11	Soft rock	m3	32		
12	Hard rock	m3	19		
<b>Carried to Collection</b>				R	
External Work					
Bill No. 1					
External Work					

**Khamangwa High School**  
**General Repairs and Renovations**

	<u>Extra over all excavations for carting away</u>				
13	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	318		
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>				
14	Filling of G4 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	96		
15	Filling of G6 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	96		
16	Filling of G9 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	111		
17	Filling of G10 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	111		
	<u>Compaction of surfaces</u>				
18	Compaction of ground surfaces under pavings 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	740		
19	Apply "Weedmaster Turfmaster" weedkiller (at a rate of 40-45ml to 5 litres of water per 50m <sup>2</sup> ) to surface of ground	m2	740		
	<u>Prescribed density tests on filling</u>				
20	In-situ dry density test in accordance with method A10(b) of TMH1	No	5		
21	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	5		
22	CBR test in accordance with method A8 of TMH1	No	5		
	<u>Bituminous premix road surfacing</u>				
23	Prime coat	m2	740		
24	30mm Thick asphalt surface paving to parking areas, roadways, etc	m2	740		
<b>Carried to Collection</b>				R	
External Work					
Bill No. 1					
External Work					

	Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing			
25	150 x 300mm High kerbs (SANS 927 fig 12) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	200	
	<b><u>ATTENUATION TANK</u></b>			
	<b><u>Excavations, etc</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
26	Trenches	m3	2	
27	Holes	m3	16	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
28	Soft rock	m3	2	
29	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
30	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	18	
	<u>Risk of collapse of excavations</u>			
31	Sides of trench and hole excavations not exceeding 1,5m deep	m2	22	
	<u>Keeping excavations free of water</u>			
32	Keeping excavations free of all water other than subterranean water		Item	
	<u>Soil insecticide in accordance with SANS 5859</u>			
33	To bottom and sides of trenches, etc	m2	9	
	<b><u>Concrete, Formwork and Reinforcement</u></b>			
	<u>25MPa/19mm unreinforced concrete</u>			
34	Strip footings	m3	2	
	<b>Carried to Collection</b>			R
	External Work			
	Bill No. 1			
	External Work			

**Khamangwa High School**  
**General Repairs and Renovations**

35	Surface beds <u>25MPa/19mm reinforced concrete</u>	m3	1		
36	Slabs including beams and inverted beams <u>Test cubes</u>	m3	2		
37	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) <u>Concrete sundries</u>	No	1		
38	Finishing top surfaces of concrete smooth with steel trowel on surface beds, slabs, etc <u>Permanent formwork</u>	m2	18		
39	1,2mm Galvanised steel permanent decking system to soffits -Decking for slabs with ends laid on brick walls <u>Reinforcement (Provisional)</u>	m2	6		
40	Varying diameter Mild steel reinforcement to structural concrete work	t	0.05		
41	Varying diameter High tensile steel reinforcement to structural concrete work	t	0.22		
42	Type 193 fabric reinforcement in concrete surface beds etc <u>Masonry</u>	m2	9		
43	One brick wall of NFX bricks in class I mortar	m2	20		
<b>Carried to Collection</b>				R	
External Work Bill No. 1 External Work					

<b><u>Plumbing and Drainage (Provisional)</u></b>					
<b><u>uPVC sv pipes</u></b>					
44	110mm Pipe laid in and including trenches not exceeding 1m deep	m	167		
45	Extra over uPvc sv pipes for 110mm bend	No	3		
46	Ditto, but for 110mm junction	No	4		
47	Ditto, but for 110mm double junction	No	4		
<u>Sumps, catchpits, inspection chambers, etc including concrete kerbs or precast concrete cover slabs (gratings and covers elsewhere)</u>					
48	450 x 450mm Rainwater sump not exceeding 750mm deep internally	No	4		
<u>Cast iron gratings, covers, etc</u>					
49	300 x 300mm x 10,3kg Dished grating and frame	No	4		
<b><u>WATER TANK &amp; BASE SUPPORT</u></b>					
<b><u>Excavations, etc</u></b>					
<u>Excavation in earth not exceeding 2m deep</u>					
50	Trenches	m3	33		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
51	Soft rock	m3	3		
52	Hard rock	m3	2		
<u>Extra over all excavations for carting away</u>					
53	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	33		
<b>Carried to Collection</b>				R	
External Work					
Bill No. 1					
External Work					



	<u>Risk of collapse of excavations</u>		
54	Sides of trench and hole excavations not exceeding 1,5m deep	m2	125
	<u>Keeping excavations free of water</u>		
55	Keeping excavations free of all water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 90% Mod AASHTO density</u>		
56	Backfilling to trenches, holes, etc	m3	33
57	Backfilling to under floors, steps, pavings, etc.	m3	32
	<u>Compaction of surfaces</u>		
58	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	64
	<u>Soil insecticide in accordance with SANS 5859</u>		
59	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	64
	<b><u>Concrete, Formwork and Reinforcement</u></b>		
	<u>25MPa/19mm unreinforced concrete</u>		
60	Foundation beams	m3	20
	<u>25MPa/19mm reinforced concrete</u>		
61	Surface beds	m3	32
62	Bottom and sides of V-drains	m3	63
63	Galvanised mild still Y10 "bar" 250mm high cast into concrete	No	64
	<b>Carried to Collection</b>		
	External Work		
	Bill No. 1		
	External Work		

**Carried to Collection**

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	<u>Test cubes</u>				
64	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
65	Surface beds, slabs, etc	m2	108		
	<u>Rough formwork ( Degree of AccuracyII)</u>				
66	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	294		
	<u>Reinforcement</u>				
67	Type 193 fabric reinforcement in concrete surface beds etc	m2	255		
68	Type 395 fabric reinforcement in concrete surface beds etc	m2	108		
	<u>Masonry</u>				
69	One brick wall of NFX bricks in class II mortar	m2	63		
70	Extra over brickwork for face brick "Horizon satin facebrick pointed with recessed and vertical joints"	m2	63		
71	Cement mortar surrounding 225mm x average 150mm high around water tank	m	93		
	<u>Plumbing and Drainage (Provisional)</u>				
	<u>Jo-Jo SG1 polyethylene drinking water tank with black lining internally</u>				
72	2500Litre circular tank 1,42m diameter x 1,86m high approximately 0,85m above ground level	No	16		
73	Set tank on top of tank stand, tie down tank with 6mm galvanised straining wire tied to mild steel "U" bar previously cast into concrete, strapped over tank and tied down on the opposite ends	No	16		
	<b>Carried to Collection</b>			R	
	External Work				
	Bill No. 1				
	External Work				

**Khamangwa High School**  
**General Repairs and Renovations**

74	Outlet union for 15mm copper pipe including hole through tank	No	16		
	<u>Load Test</u>				
75	Fill tank with drinkable water to 50% of its capacity for a period of 10 days and then inspect for cracks, depression, etc	No	16		
	<b><u>FENCING</u></b>				
	<u>Galvanised security fence including site clearance and preparation of ground</u>				
76	Security fence of 50 x 50 x 2.5mm Galvanised weldmesh 1800mm high including 4 strands of galvanised, twisted double strand 1.6mm thick wire with 3 barbs incorporated in twist every 150mm fixed to post with 2.5mm galvanised binding wire, mechanically strain between straining posts and/or gate and corner posts.	m	375		
77	Continuous 700mm galvanised flat wrap razor wire fixed to top of 1800mm high galvanised weldmesh fence to 2 of 4 strings of barbed wire with wire ties on inside	m	375		
78	Extra over for 50mm dia. x 2.8mm galvanised stay pole bolted to straining posts with 200 x 200 x 6mm base plate cast in and including 450 x 760 x 600mm concrete base	No	150		
79	Extra over for 50mm dia. x 3mm galvanised intermediate post of 1800mm high with 300 x 300 x 6mm base plate cast in and including 300 x 300 x 900mm concrete base. Including providing holes for eyebolts and bolts for fixing of anchor post.	No	74		
80	Extra over for 100mm Dia. x 3mm galvanised gate post with 300 x 300 x 6mm base plate cast in and including 450 x 450 x 900mm concrete base. Including providing holes for eyebolts and bolts for fixing of anchor post.	No	4		
81	Extra over for 100mm dia. x 3mm galvanised straining post with 300 x 300 x 6mm base plate cast in and including 450 x 450 x 900mm concrete base. Including providing holes for eyebolts and bolts for fixing of anchor post.	No	75		
<b>Carried to Collection</b>				R	
External Work					
Bill No. 1					
External Work					

82	Standard 1.35 x 1.8m high gate manufactured from 50 x 2.8mm tubular frames with bracing as shown on drawing 1120.19-INT-GA-2001 B, complete with 2 hinges and bolts to each, barrel bolt to take padlock, as well as a vertical extension 600mm long and 4 tying holes for barbed wire and 100mm dia. straining posts to be provided at both sides of gate with 300 x 300 x 6mm base plate cast into 450 x 450 x 900mm concrete base (straining posts elsewhere) including 50 x 50 x 2.5mm galvanised "weldmesh" 1.8m high fixed to gate. stay poles 50mm dia. x 2.8mm bolted to straining posts with 200 x 200 x 6mm base late cast in 450 x 760 x 600mm concrete base. Base to extend 50mm above ground level, and gate to include steel security spike screwed to top of gate as per manufacturer's instructions.	No	1		
83	Ditto, but standard 4,05 x 1,8m high double gate consisting of 50mm dia. x 2,8mm tubular frames with bracing as shown on drawing 1120.19-INT-GA-2001 B, complete with 4 hinges, bolts and 2 barrel bolts. Including providing 100 x 100 x 200mm deep concrete blocks complete with hollow steel sleeve cast in centre for barrel bolts. Top of concrete to be 5mm above ground level and top of sleeve to be flush with concrete. Provide 1 block under first closing gate in closed position, and provide 1 block under both gates in open position.	No	1		
<b><u>RETAINING STRUCTURES FORMED OF</u></b> <b><u>PLANTER BLOCKS</u></b>					
<u>Open face excavation in earth</u>					
84	To embankment behind retaining blocks including trimming to slope	m3	97		
<u>Interlocking planter blocks</u>					
<u>Loffelstein precast concrete interlocking planter blocks finished smooth on exposed surfaces</u>					
85	Retaining structures with stepped face and curves as required to suit slopes, 3000mm high type L300 interlocking planter blocks laid with horizontal bed joints to 95 degree slope, including 210m long 110mm dia. upvc slotted agricultural pipe including bends and average 300mm thick compacted earth filling behind the blocks and filling blocks with garden soil lightly tamped as the work proceeds	m2	216		
<b>Carried to Collection</b>				R	
External Work					
Bill No. 1					
External Work					

[illegible]

Section No. 9

Bill No. 1

External Work

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

274

275

276

277

278

279

280

281

282

283

284

285

**Carried to Final Summary**

R

External Work  
Bill No. 1  
External Work

Item No		Quantity	Rate	Amount
<b><u>BILL NO. 1</u></b>				
<b><u>PROVISIONAL SUMS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<u>General</u>				
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances				
<u>Profit</u>				
Where stated, the contractor may allow for profit if required				
<u>General attendance on nominated/selected subcontractors</u>				
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractor				
<u>Community Liaison Officer</u>				
1	Provide the Provisional Amount of R 200,000.00 (Two hundred thousand Rand) nett for Community Liaison Officer's Salary to be omitted in part or whole as instructed by Principal Agent	Item		200,000.00
2	Allow for attendance on item above if required	Item		
3	Allow for profit on item above if required	Item		
<u>Steel Elevated Water Tank</u>				
4	Provide the Provisional Amount of R 450,000.00 (Four hundred and fifty thousand Rand) for complete installation of steel elevated tank	Item		450,000.00
5	Allow for attendance on item above if required	Item		
<b>Carried to Collection</b>				R
Provisional Sums Bill No. 1 Provisional Sums				

## Khamangwa High School General Repairs and Renovations

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Section No. 10

Bill No. 1

Provisional Sums

**COLLECTION**

Total Brought Forward from Page No.

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No**

287

288

**Amount**

**Carried to Final Summary**

R

Provisional Sums  
Bill No. 1  
Provisional Sums

# Khamangwa High School

## General Repairs and Renovations

FINAL SUMMARY			Page No	Amount
1	Preliminaries	42		
2	Block B - 3 Classroom Block	89		
3	Block D - 2 Classroom Block	130		
4	Block G - 3 Classroom Block	175		
5	Block H & F - 8 Classroom Block	213		
6	Block A, I & J - Flashing Toilets	238		
7	Block E & K - Pits Toilets	260		
8	Block I - Guard House	273		
9	External Work	286		
10	Provisional Sums	289		
SUB-TOTAL A			R	
Contingencies @ 5% of Sub-total A to be used at Employer's discretion		Item		
SUB-TOTAL B			R	
ADD: VALUE ADDED TAX @ 15%			R	
Carried to Form of Tender			R	