

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

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

"**COMMENCEMENT DATE**" means the date that 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

Fixed: _____ Value related: _____ Time related: _____

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3	<p>A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
6	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
9	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</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>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
11	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
12	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
13	<p>A13.0 No clause</p>	N/A		
14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p>			
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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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	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4			
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16	A16.0 ACCESS TO THE WORKS			
	Clause 16.0			
	Fixed:_____ Value related:_____ Time related:_____	Item		
17	A17.0 CONTRACT INSTRUCTIONS			
	Clause 17.0			
	Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors "			
	Fixed:_____ Value related:_____ Time related:_____	Item		
18	A18.0 SETTING OUT OF THE WORKS			
	Clause 18.0			
	Fixed:_____ Value related:_____ Time related:_____	Item		
19	A19.0 ASSIGNMENT			
	Clause 19.0			
	Fixed:_____ Value related:_____ Time related:_____	Item		
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20	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
21	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
22	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>COMPLETION</u></p>	Item		
24	<p>A24.0 PRACTICAL COMPLETION</p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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25	<p>A25.0 WORKS COMPLETION</p> <p>Clause 25.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
26	<p>A26.0 FINAL COMPLETION</p> <p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
27	<p>A27.0 LATENT DEFECTS LIABILITY PERIOD</p> <p>Clause 27.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
28	<p>A28.0 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
29	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
30	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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PAYMENT

31 **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: _____

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

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
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CANCELLATION

36 **A36.0 CANCELLATION BY EMPLOYER -
CONTRACTOR'S DEFAULT**

Clause 36.0

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

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

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

37 **A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

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

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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: _____

Item

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39	<p>A39.0 CANCELLATION - CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) working days of completion of such a report"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>DISPUTE</u></p>	Item			
40	<p>A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p>	Item			
41	<p>A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried to Collection					
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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: _____

Item

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48	<p>B2.5 Priced documents</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
49	<p>B2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p>B3.0 THE SITE</p>	Item	
50	<p>B3.1 Defined works area</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
51	<p>B3.2 Geotechnical investigation</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
52	<p>B3.3 Inspection of the site</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
53	<p>B3.4 Existing premises occupied</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
54	<p>B3.5 Previous work - dimensional accuracy</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
55	<p>B3.6 Previous work - defects</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
56	<p>B3.7 Services - known</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
Carried to Collection			R
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57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item	
58	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item	
59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item	
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
61	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: _____	Item	
62	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item	
63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item	
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item	
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried to Collection		R
	Preliminaries Bill No. 1 Preliminaries		

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: _____

Item

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

Item

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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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12.1.18 Telecommunications

[7.4] Telephone YES/NO

Facsimile YES/NO

E-mail YES/NO

12.1.19 Ablution facilities

[7.5] Option A (by **contractor**) YES/NO

Option B (by **employer**) YES/NO

12.1.20 Protection of existing/sectionally occupied works

[11.2] Protection is required YES/NO

12.1.21 Special attendance

[9.2] **Subcontractor** (1) details:

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 Protection of the works

[11.1] Specific requirements:

12.1.23 Disturbance

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

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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

Carried to Collection

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C1.0 CONTRACT DRAWINGS

** Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a **bills of quantities** or **lump sum document***

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

* 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 **works** and the manner in which they are to be executed

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

Fixed: _____ Value related: _____
Time related: _____

Item

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C2.0 GENERAL PREAMBLES

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____
Time related: _____

Item

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104	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
105	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment 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>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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107	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
108	<p>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
109	<p>C8.0 SECURITY CHECK OF PERSONNEL</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried to Collection					
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110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item			
111	<p>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>				
Carried to Collection				R	
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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

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	C10.5 MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification Fixed: _____ Value related: _____ Time related: _____			
112	C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained Fixed: _____ Value related: _____ Time related: _____	Item		
113	<div style="text-align: center;">*** Page Feed ***</div>	Item		
	Carried to Collection			
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Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			R
Block A - Administration 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 A - Administration 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 A - Administration Block
Bill No. 1
Alterations (Provisional)

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<u>REMOVAL OF EXISTING WORK</u>					
	<u>Breaking up and removing unreinforced concrete</u>				
1	Steps	m3	1		
	<u>Breaking up and removing unreinforced concrete</u>				
2	100mm Thick surface beds	m2	96		
	<u>Breaking down and removing brickwork etc</u>				
3	One brick walls	m2	2		
	<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)</u>				
4	Timber single door not exceeding 2,5m ²	No	28		
5	Timber double door exceeding 2,5m ² and not exceeding 5m ²	No	1		
6	Servicing of existing steel windows with new hinges, latches etc	No	24		
	<u>Note: Tenderers are referred to the foregoing supplementary preambles within this trade when pricing the following item (removal of asbestos)</u>				
	<u>Taking down and removal of Asbestos by Specialist</u>				
7	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	411		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
8	Timber rafters forming a double pitch roof on laminated timber beam apex (laminated timber beam elsewhere), including wall plates, timber supports and bracing on eaves	m	565		
9	297 x 70mm Laminated timber beam at apex of gable roof	m	37		
10	Barge boards	m	23		
Carried to Collection				R	
Block A - Administration Block					
Bill No. 1					
Alterations (Provisional)					

Mzuvele High School
General Repairs and Renovations

11	Fascia boards	m	74
12	Eaves gutters	m	74
13	Rainwater pipes	m	20
	<u>Taking out and removing ironmongery</u>		
14	Remove existing pinning boards approximately 1200 x 1200mm high including fixings, etc., and cart off site	No	4
15	Remove existing pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	1
16	Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	1
	<u>Hacking up/off and removing ceramic tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>		
17	Ceramic floor tiles	m2	230
	<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>		
18	30mm Screed from floors	m2	316
19	Internal plaster from walls and columns	m2	147
	<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>		
20	PVC piping not exceeding 50mm diameter	m	30
21	PVC piping exceeding 100mm and not exceeding 200mm diameter	m	10
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
22	Vitreous china wash hand basin	No	8
23	Vitreous china WC pan with cistern and flush pipe	No	14
Carried to Collection			
Block A - Administration Block			
Bill No. 1			
Alterations (Provisional)			

R

24	Stainless steel slab urinal including breaking up and removing concrete urinal step	No	1
	<u>Taking out/off and removing glass and mirrors</u>		
25	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	10
	<u>MAKING GOOD OF FINISHES, ETC</u>		
	<u>Cleaning brickwork</u>		
26	Acid cleaning internal face brickwork with high pressure cleaner and leave walls clean, in perfect condition	m2	281
	<u>MAKING GOOD OF EXISTING WORKS</u>		
27	Repairs to existing surface beds, including filling in cracks, with an approved filler, stitching as required, etc	m2	200
Carried to Collection			R
Block A - Administration Block Bill No. 1 Alterations (Provisional)			

Bill No. 1

Alterations (Provisional)

COLLECTION

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Block A - Administration Block
Bill No. 1
Alterations (Provisional)

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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	92	R

Carried to Collection

Block A - Administration Block
Bill No. 2
Earthworks (Provisional)

Bill No. 2

Earthworks (Provisional)

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Bill No. 2
Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Bases	m3	2
Carried to Collection			R
Block A - Administration Block Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)			

REINFORCED CONCRETE CAST ON/IN FORMWORK

25MPa/19mm concrete

2	Surface beds on waterproofing	m3	12	
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TEST CUBES

3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2	
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

4	Surface beds, slabs, etc	m2	93	
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	96	
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REINFORCEMENT

Fabric reinforcement

6	Type 193 fabric reinforcement in concrete surface beds etc	m2	92	
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Carried to Collection

Block A - Administration Block
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

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

COLLECTION

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Block A - Administration Block
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

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Item No		Quantity	Rate	Amount
	BILL NO. 4			
	MASONRY (PROVISIONAL)			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	<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			
	BRICKWORK			
	FOUNDATIONS (PROVISIONAL)			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Piers	m3	0.2	
	SUPERSTRUCTURE			
	<u>Brickwork of NFP bricks in class II mortar</u>			
2	Piers	m3	2	
	Carried Forward to Summary of Section No. 2		R	
	Block A - Administration Block			
	Bill No. 4			
	Masonry (Provisional)			

Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	411	
2	Ridge cappings 475mm girth	m	37	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	411	
Carried Forward to Summary of Section No. 2				R
Block A - Administration Block				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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 bandering			
Carried to Collection			R
Block A - Administration Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 8448 x 1700mm high overall with 700mm eaves projection on both sides	No	31		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to brick piers	m	30		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	71		
4	50 x 76mm Purlins	m	515		
5	38 x 114mm Bracing	m	37		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	58		
7	Two coats creosote on sawn timbers	m2	43		
	<u>EAVES, VERGES, ETC</u>				
	<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	21		
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	74		
Carried to Collection				R	
Block A - Administration Block					
Bill No. 6					
Carpentry and Joinery (Provisional)					

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel 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	9
11	Ditto, but double door 1600 x 2032mm high with rebated meeting edges	No	1
<u>Semi-solid flush doors with commercial veneer suitable for painting</u>			
12	44mm Door 813 x 2032mm high	No	18

Carried to Collection

Block A - Administration Block
Bill No. 6
Carpentry and Joinery (Provisional)

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Bill No. 6
Carpentry and Joinery (Provisional)

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Block A - Administration Block
Bill No. 6
Carpentry and Joinery (Provisional)

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	230	
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	5	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	191	
	Carried Forward to Summary of Section No. 2			
	Block A - Administration Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No	Quantity	Rate	Amount
BILL NO. 9			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block A - Administration Block Bill No. 9 Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	56
2	WC chrome plated indicator bolt	No	16

LOCKS

Manufactured by "Union" or other equal and approved

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	14
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LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

4	150 x 150mm Anodised aluminium plate with male symbol	No	2
5	150 x 150mm Anodised aluminium plate with female symbol	No	2

SUNDRIES

Manufactured by "Union" or other equal and approved

6	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	29
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Carried to Collection

Block A - Administration Block
Bill No. 9
Ironmongery (Provisional)

R

BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

7	Toilet roll holder, plugged	No	14	
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**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System" or other equal and approved

8	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	
9	Pinning board size 1200 x 1200mm high plugged	No	6	
10	Pinning board size 2400 x 1200mm high plugged	No	2	

Carried to Collection

Block A - Administration Block
Bill No. 9
Ironmongery (Provisional)

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Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block A - Administration Block
Bill No. 9
Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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, etc.	No	9
2	Double hot dipped galvanised mild steel gate, 1520mm x 2100mm 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, etc.	No	1
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Block A - Administration Block			
Bill No. 10			
Metalwork (Provisional)			

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Item No		Quantity	Rate	Amount
	BILL NO. 12			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	SUPPLEMENTARY PREAMBLES			
	<p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>Polypropylene pipes</u></p> <p>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</p> <p>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</p> <p><u>Fixing of pipes</u></p> <p>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</p>			
	Carried to Collection		R	
	Block A - Administration 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 A - Administration 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	74
2	100mm Diameter rainwater pipes	m	23
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	4
5	Extra over rainwater pipe for bend	No	8
6	Extra over rainwater pipe for shoe	No	4

Carried to Collection

Block A - Administration 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 | 12 |
|---|--|----|----|

Concrete, Formwork and Reinforcing

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

- | | | | |
|----|--|----|----|
| 8 | "V" drains | m3 | 12 |
| 9 | Finishing top surface of "V" drains smooth with a steel trowel to falls | m2 | 92 |
| 10 | Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide | m | 96 |
| 11 | Type 193 fabric reinforcement in concrete surface beds etc | m2 | 92 |
| 12 | 10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete | m | 88 |

SANITARY FITTINGS

"Vaal" or other equal and approved

- | | | | |
|----|---|----|----|
| 13 | 455 x 290mm "Bantam" 7030 cloakroom basin bolted to wall | No | 8 |
| 14 | "Hibiscus" 772602 close-coupled WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern | No | 14 |
| 15 | "Flatback" 705326 wall urinal with spreader, waste union, and FJT5.5 flushpipe (flush valve elsewhere) | No | 4 |

Carried to Collection

Block A - Administration Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

WASTE UNIONS ETC

"Cobra Watertech" or other equal and approved

16	32mm 301 CP basin waste union	No	8
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TRAPS ETC

17	75mm VA3.113 CP hinged urinal domical grating	No	4
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18	50mm 345 CP bottle trap	No	12
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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	8
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21	FJ6.000CP "Flushmaster Junior" urinal flush valve	No	4
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SANITARY PLUMBING

uPVC soil and vent pipes

22	50mm Pipes	m	22
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23	110mm Pipes	m	5
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Extra over uPVC soil and vent pipes for fittings

24	110mm Pan connector	No	14
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25	50mm Bend	No	20
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26	110mm Bend	No	1
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27	50mm Junction	No	4
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28	110mm Junction	No	1
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29	50mm Access bend	No	1
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30	110mm Access bend	No	1
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31	50mm Access junction	No	1
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Carried to Collection

Block A - Administration Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

WATER SUPPLIES

Class 1 copper pipes with capillary couplings

32	15mm Pipes	m	25
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33	22mm Pipes	m	38
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Extra over Class 1 copper pipes for capillary fittings

34	15mm Fittings	No	15
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35	22mm Fittings	No	20
----	---------------	----	----

Testing

36	Testing water pipe system	Item	
----	---------------------------	------	--

Carried to Collection

Block A - Administration Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block A - Administration Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>MUNICIPAL CONNECTION</u>			
<u>CONNECTION</u>			
1		Item	
Provide the sum of R50 000 (Fifty thousand rand) for municipal connection			
<u>BLOCK A - ADMIN BLOCK</u>			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
2			
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	
3			
60A Triple pole isolator			
	No	1	
Carried to Collection			R
Block A - Administration Block			
Bill No. 13			
Electrical work (Provisional)			

Mzuvele High School
General Repairs and Renovations

4	10A Single pole MCCB (5kA)	No	5		
	<u>CABLES</u>				
5	1.5mm ² 3-Core	m	560		
6	2.5mm ² 3-Core	m	250		
7	16mm ² 3-Core	m	60		
	<u>Cable joints</u>				
8	1.5mm ² 3-Core	No	2		
9	16mm ² 3-Core	No	2		
	<u>Cable terminations</u>				
10	1.5mm ² 3-Core	No	40		
11	2.5mm ² 3-Core	No	40		
12	16mm ² 3-Core	No	2		
	<u>EARTH CONDUCTORS</u>				
	<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 ²	m	60		
	<u>SUNDRIES</u>				
14	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		
Carried to Collection				R	
Block A - Administration Block					
Bill No. 13					
Electrical work (Provisional)					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

15	20mm Diameter	m	810
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PVC conduit accessories

16	Round outlet box for 20mm conduit	No	81
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17	Deep type (concrete type) round outlet box for 20mm conduit	No	81
----	---	----	----

18	Standard draw box for 20mm conduit	No	81
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19	50 x 100 x 50mm Outlet box	No	81
----	----------------------------	----	----

20	100 x 100 x 50mm Outlet box	No	81
----	-----------------------------	----	----

21	100 x 100 x 50mm Outlet box with blank cover plate	No	81
----	--	----	----

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

22	1.5mm ²	m	290
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DRAW-WIRES

23	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

24	Flush mounted bell push button	No	1
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25	16A Flush mounted two lever one-way switch unit	No	12
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26	16A Three pin flush mounted socket outlet with switch, single type	No	25
----	--	----	----

Carried to Collection

Block A - Administration Block
Bill No. 13
Electrical work (Provisional)

R

Mzuvele High School
General Repairs and Renovations

LUMINAIRES

27 Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp

No

56

SUNDRIES

28 Earthing of buildings

Item

29 Provision of as built drawings

Item

30 Testing and commissioning the complete electrical installation

Item

Carried to Collection

R

Block A - Administration Block
Bill No. 13
Electrical work (Provisional)

Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block A - Administration Block
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 15</u></p> <p><u>PAINTWORK (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>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</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>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</p> <p><u>PAINT SPECIFICATIONS</u></p> <p>All painting shall be done in accordance with manufacturer's specifications unless otherwise described</p>			
<p>Carried to Collection</p>			R
<p>Block A - Administration Block Bill No. 15 Paintwork (Provisional)</p>			

PAINTWORK ETC TO NEW WORK

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

ON INTERNAL FLOATED PLASTER SURFACES

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

1	Walls	m2	562		
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	230		
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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	48		
---	---	----	----	--	--

ON WOOD SURFACES

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

4	Laminated beam	m2	22		
5	Doors	m2	101		

Carried to Collection

Block A - Administration 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

6	Windows	m2	69	
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ON WOOD SURFACES

Two coats oil wood primer

7	Backs of frames, linings, etc not exceeding 300mm wide	m	129	
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Carried to Collection

Block A - Administration Block
Bill No. 15
Paintwork (Provisional)

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Bill No. 15
Paintwork (Provisional)

COLLECTION

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Bill No. 15
Paintwork (Provisional)

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Mzuvele High School
General Repairs and Renovations

Bill No	SECTION SUMMARY - Block A - Administration Block	Page No		Amount
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4	Masonry (Provisional)	56		
5	Roof Coverings (Provisional)	57		
6	Carpentry and Joinery (Provisional)	61		
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11	Plastering (Provisional)	69		
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Block A - Administration Block				

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
		R	
Carried to Collection			
Block B - HOD Offices			
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 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 - HOD Offices
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 - HOD Offices
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)

1	Timber single door not exceeding 2,5m ²	No	4
2	Servicing of existing aluminium window with new hinges, latches etc	No	4

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

3	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	79
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

4	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	47
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5	Timber rafters	m	65
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6	Wall plates	m	28
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7	Barge boards	m	25
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8	Fascia boards	m	15
---	---------------	---	----

9	Eaves gutters	m	15
---	---------------	---	----

10	Rainwater pipes	m	3
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Taking out and removing ironmongery

11	Remove existing pinning boards approximately 1200 x 1200mm high including fixings, etc., and cart off site	No	4
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Taking out/off and removing sundry metalwork

12	Steel single leaf security gate not exceeding 2,5m ²	No	4
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Carried to Collection

Block B - HOD Offices
Bill No. 1
Alterations (Provisional)

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Mzuvele High School
General Repairs and Renovations

	<u>Hacking up/off and removing tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>				
13	Ceramic floor tiles	m2	47		
	<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>				
14	30mm Screed from floors	m2	47		
15	Internal plaster from walls and columns	m2	128		
	<u>Taking out/off and removing glass and mirrors</u>				
16	Broken glass from windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	2		
	<u>MAKING GOOD OF FINISHES, ETC</u>				
	<u>Cleaning brickwork</u>				
17	Acid cleaning external face brickwork with high pressure cleaner and leave walls clean, in perfect condition	m2	77		
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Block B - HOD Offices					
Bill No. 1					
Alterations (Provisional)					

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Bill No. 1

Alterations (Provisional)

COLLECTION

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Block B - HOD Offices

Bill No. 1

Alterations (Provisional)

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the 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> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>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>			
<p align="right">Carried to Collection</p>			<p align="right">R</p>
<p>Block B - HOD Offices</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement (Provisional)</p>			

REINFORCED CONCRETE CAST ON/IN FORMWORK

25MPa/19mm concrete

1	Surface beds on waterproofing	m3	3	
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TEST CUBES

2	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

3	Surface beds, slabs, etc	m2	14	
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

4	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	16	
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REINFORCEMENT

Fabric reinforcement

5	Type 193 fabric reinforcement in concrete surface beds etc	m2	14	
---	--	----	----	--

Carried to Collection

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

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Concrete, Formwork and Reinforcement (Provisional)

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

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Item No	Quantity	Rate	Amount
<u>BILL NO. 5</u>			
<u>ROOF COVERINGS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<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	47
<u>ROOF AND WALL INSULATION</u>			
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3</u>			
2	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	47
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Block B - HOD Offices			
Bill No. 5			
Roof Coverings (Provisional)			

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Rafters 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			
1	m	65	
2	m	28	
Carried to Collection			R
Block B - HOD Offices			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele High School
General Repairs and Renovations

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TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber frames

- 8 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

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Block B - HOD Offices
Bill No. 6
Carpentry and Joinery (Provisional)

Bill No. 6
Carpentry and Joinery (Provisional)

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Block B - HOD Offices
Bill No. 6
Carpentry and Joinery (Provisional)

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	47	
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	1	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	55	
	Carried Forward to Summary of Section No. 3			
	Block B - HOD Offices			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

Item No	Quantity	Rate	Amount
BILL NO. 8			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block B - HOD Offices Bill No. 8 Ironmongery (Provisional)			

HINGES, BOLTS, ETC

"Union" or other equally approved

1	100mm Aluminium butt hinge	No	8		
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LOCKS

Manufactured by "Union"

2	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	4		
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SUNDRIES

Manufactured by "Union"

3	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	4		
---	---	----	---	--	--

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

Manufactured by "Vitrex System"

4	Pinning board approximately 1200 x 1200mm high	No	4		
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Carried to Collection

Block B - HOD Offices
Bill No. 8
Ironmongery (Provisional)

R

Bill No. 8
Ironmongery (Provisional)
COLLECTION

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Block B - HOD Offices
Bill No. 8
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<u>Welded screens and gates</u>			
1	No	4	
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			
Carried Forward to Summary of Section No. 3			R
Block B - HOD Offices			
Bill No. 9			
Metalwork (Provisional)			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block B - HOD Offices			
Bill No. 12			
Plumbing and Drainage (Provisional)			
		R	

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 - HOD Offices
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	14
2	100mm Diameter rainwater pipes	m	3
3	Extra over gutter for stopped end	No	2
4	Extra over gutter for outlet for 100mm pipe	No	1
5	Extra over rainwater pipe for bend	No	2
6	Extra over rainwater pipe for shoe	No	1

Carried to Collection

Block B - HOD Offices
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

7	Excavate average 125mm deep in earth to form "V" drain profile	m3	5	
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Concrete, Formwork and Reinforcing

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

8	"V" drains	m3	5	
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9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	41	
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10	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	45	
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11	Type 193 fabric reinforcement in concrete surface beds etc	m2	41	
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12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	37	
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Carried to Collection

Block B - HOD Offices
Bill No. 12
Plumbing and Drainage (Provisional)

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Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block B - HOD Offices
Bill No. 12
Plumbing and Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK B</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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	
<u>CABLES</u>			
4	1.5mm² 3-Core	m 160	
Carried to Collection			R
Block B - HOD Offices Bill No. 13 Electrical work (Provisional)			

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Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	24
17	Standard draw box for 20mm conduit	No	24
18	50 x 100 x 50mm Outlet box	No	24
19	100 x 100 x 50mm Outlet box	No	24
20	100 x 100 x 50mm Outlet box with blank cover plate	No	24

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

21	1.5mm ²	m	290
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DRAW-WIRES

22	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

23	Flush mounted bell push button	No	1
24	16A Flush mounted two lever one-way switch unit	No	6
25	16A Three pin flush mounted socket outlet with switch, single type	No	8

LUMINAIRES

26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	16
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SUNDRIES

27	Earthing of buildings	Item	
28	Provision of as built drawings	Item	

Carried to Collection

Block B - HOD Offices
Bill No. 13
Electrical work (Provisional)

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Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block B - HOD Offices
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block B - HOD Offices 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	128		
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	47		
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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	21		
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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	14		
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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

5	Door frame	m2	7		
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Carried to Collection

Block B - HOD Offices
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block B - HOD Offices
Bill No. 15
Paintwork (Provisional)

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Mzuvele High School
General Repairs and Renovations

Bill No	SECTION SUMMARY - Block B - HOD Offices	Page No	Amount
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3	Concrete, Formwork and Reinforcement (Provisional)	97	
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5	Roof Coverings (Provisional)	99	
6	Carpentry and Joinery (Provisional)	103	
7	Ceilings, Partitions and Access Flooring (Provisional)	104	
8	Ironmongery (Provisional)	107	
9	Metalwork (Provisional)	108	
10	Plastering (Provisional)	109	
11	Tiling (Provisional)	110	
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13	Electrical work (Provisional)	120	
14	Glazing (Provisional)	121	
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Block B - HOD Offices			

Item No		Quantity	Rate	Amount
	BILL NO. 1			
	<u>ALTERATIONS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	Carried to Collection		R	
	Block C - Typical 8 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 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 C - Typical 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 C - Typical 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	131
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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 ²	No	7
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5	Servicing of existing steel windows with new hinges, latches etc	No	40
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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	644
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Timber roof structure of double pitched roof with two gable ends including wall plates, trusses and bracing	m2	644
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8	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	346
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9	Barge boards	m	23
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10	Fascia boards	m	103
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11	Eaves gutters	m	103
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12	Rainwater pipes	m	41
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Carried to Collection

R

Block C - Typical 8 Classroom Block
Bill No. 1
Alterations (Provisional)

Mzuvele High School
General Repairs and Renovations

	<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	6		
14	Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	6		
	<u>Taking out/off and removing sundry metalwork</u>				
15	Steel single leaf security gate not exceeding 2,5m ²	No	7		
	<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	66		
17	Internal plaster from walls and columns	m2	306		
	<u>Taking out/off and removing glass and mirrors</u>				
18	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	22		
	<u>MAKING GOOD OF FINISHES, ETC</u>				
	<u>Cleaning brickwork</u>				
19	Acid cleaning internal face brickwork at dado level with high pressure cleaner and leave walls clean, in perfect condition and re-apply two coats of clear gloss face brick sealer	m2	147		
20	Acid cleaning external face brickwork with high pressure cleaner and leave wall, clean in perfect condition	m2	307		
	<u>MAKING GOOD OF EXISTING WORKS</u>				
21	Repairs to existing surface beds, including filling in cracks, with an approved filler, stitching as required, etc	m2	22		
	<u>METAL STITCHING</u>				
22	Hacking up/off and removing plaster from walls, columns and beams	m2	75		
	Carried to Collection			R	
	Block C - Typical 8 Classroom Block				
	Bill No. 1				
	Alterations (Provisional)				

Mzuvele High School
General Repairs and Renovations

23	Chipout 40 x 10mm mortar joint between brickwork courses and clean out joint with an air compressor	m	375
24	19mm Diameter Thorhelical or similar approved helical bar inserted midway between structural cracks	m	375
25	Grout 40 x 10mm joint between brick courses	m	375
26	Internal plaster on walls	m2	75
27	One coat primer, one universal undercoat and two coats quality pva paint	m2	75

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 1
Alterations (Provisional)

R

Bill No. 1

Alterations (Provisional)

COLLECTION

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Block C - Typical 8 Classroom Block

Bill No. 1

Alterations (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>EXCAVATIONS, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	1
2	Thickening under surface beds, etc.	m3	16
<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	22
<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	125
<u>FILLING ETC</u>			
<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	4
Carried to Collection			R
Block C - Typical 8 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

125

Carried to Collection

Block C - Typical 8 Classroom Block
 Bill No. 2
 Earthworks (Provisional)

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Bill No. 2

Earthworks (Provisional)

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Block C - Typical 8 Classroom Block
Bill No. 2
Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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"			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Bases	m3	0.4
Carried to Collection			R
Block C - Typical 8 Classroom Block			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

REINFORCED CONCRETE CAST ON/IN FORMWORK

25MPa/19mm concrete

2	Surface beds on waterproofing	m3	16	
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TEST CUBES

3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2	
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

4	Surface beds, slabs, etc	m2	125	
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	129	
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REINFORCEMENT

Fabric reinforcement

6	Type 193 fabric reinforcement in concrete surface beds etc	m2	125	
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Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

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

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

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Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	599	
2	Ridge cappings 475mm girth	m	72	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	599	
Carried Forward to Summary of Section No. 4				R
Block C - Typical 8 Classroom Block				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block C - Typical 8 Classroom Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 9348 x 1700mm high overall with 700mm eaves projection on both sides	No	47		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to brick piers (brick piers elsewhere measured)	m	56		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	110		
4	50 x 76mm Purlins	m	1,000		
5	38 x 114mm Bracing	m	60		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	97		
7	Two coats creosote on sawn timbers	m2	97		
	<u>EAVES, VERGES, ETC</u>				
	<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	12		
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	111		
Carried to Collection				R	
Block C - Typical 8 Classroom Block					
Bill No. 6					
Carpentry and Joinery (Provisional)					

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber frames

- 10 44mm Double leaf framed batten door 1610 x 2032mm high of 44 x 100mm top rail, stiles and rebated meeting stiles, 44 x 100mm middle ledge and braces and 44 x 100mm bottom rail filled in with 70mm V-jointed one side boarding and covered on other side with 3,2mm plywood with veneer to match door let into and including rebates all round

No

7

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Bill No. 6
Carpentry and Joinery (Provisional)

COLLECTION

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Block C - Typical 8 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	346	
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	6	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	197	
	Carried Forward to Summary of Section No. 4			
	Block C - Typical 8 Classroom Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No		Quantity	Rate	Amount
	BILL NO. 9			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	Carried to Collection		R	
	Block C - Typical 8 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

7

SUNDRIES

Manufactured by "Union"

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

No

7

**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

6

- 4 Pinning board size 2400 x 1200mm high plugged

No

6

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block C - Typical 8 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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	7
<u>GALVANISED STEEL MINOR WORK</u>			
<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)	No	17
Carried Forward to Summary of Section No. 4			R
Block C - Typical 8 Classroom Block			
Bill No. 10			
Metalwork (Provisional)			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block C - Typical 8 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 C - Typical 8 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	103
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 C - Typical 8 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

8	Excavate average 125mm deep in earth to form "V" drain profile	m3	16	
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Concrete, Formwork and Reinforcing

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

9	"V" drains	m3	16	
10	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	125	
11	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	129	
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	125	
13	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	121	

FIRE APPLIANCES ETC

14	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2	
15	10kg Carbon dioxide fire extinguisher	No	1	

Fire hydrant pedestals

16	100mm "Storz" type fire Hydrant complete	No	3	
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WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

17	20 NB screwed socket	m	21	
18	25 NB screwed union	No	17	

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

19	25 NB screwed barrel nipple screwed	No	21
20	50 NB screwed type	m	64
21	50 NB screwed union	No	7
22	50 NB screwed nipple	No	4
23	50 NB galvanised SANS62 medium elbow	No	9
24	50/25 NB Galvanised screw type reducing tee	No	8
25	Flushing of pipework and pressure testing of whole system		Item
26	Commissioning of Complete System		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
27	150 x 150mm Sign	No	11
28	Provision of fire plan in laminated A3 size	No	1
29	Emergency assembly point sign with steel pole and mass concrete base	No	1
30	Hydrant and Arrow sign (290x290mm size per sign) with steel pole and mass concrete base.	No	1

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block C - Typical 8 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK C</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	490
Carried to Collection			R
Block C - Typical 8 Classroom Block Bill No. 13 Electrical work (Provisional)			

5	2.5mm ² 3-Core	m	190	
6	16mm ² 3-Core	m	60	
	<u>Cable joints</u>			
7	1.5mm ² 3-Core	No	2	
8	16mm ² 3-Core	No	2	
	<u>Cable terminations</u>			
9	1.5mm ² 3-Core	No	40	
10	2.5mm ² 3-Core	No	40	
11	16mm ² 3-Core	No	2	
	<u>EARTH CONDUCTORS</u>			
	<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>			
12	6mm ²	m	60	
	<u>SUNDRIES</u>			
13	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	
	<u>GENERAL LIGHTING AND POWER</u>			
	<u>CONDUITS ETC</u>			
	<u>Rigid PVC conduits</u>			
14	20mm Diameter	m	680	
	<u>PVC conduit accessories</u>			
15	Round outlet box for 20mm conduit	No	68	
	Carried to Collection			R
	Block C - Typical 8 Classroom Block			
	Bill No. 13			
	Electrical work (Provisional)			

Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	68
17	Standard draw box for 20mm conduit	No	68
18	50 x 100 x 50mm Outlet box	No	68
19	100 x 100 x 50mm Outlet box	No	68
20	100 x 100 x 50mm Outlet box with blank cover plate	No	68

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

21	1.5mm ²	m	290
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DRAW-WIRES

22	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

23	Flush mounted bell push button	No	1
24	16A Flush mounted two lever one-way switch unit	No	9
25	16A Three pin flush mounted socket outlet with switch, single type	No	19

LUMINAIRES

26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	49
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SUNDRIES

27	Earthing of buildings	Item	
28	Provision of as built drawings	Item	

Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 13
Electrical work (Provisional)

R

Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block C - Typical 8 Classroom Block
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block C - Typical 8 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	296	
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	346	
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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	55	
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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	12	
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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

5	Door frames	m2	16	
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6	Windows with burglar bars	m2	55	
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7	Steel support posts	m2	13	
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Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

ON WOOD SURFACES

Two coats oil wood primer

8	Laminated beam	m2	38
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Carried to Collection

Block C - Typical 8 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block C - Typical 8 Classroom Block
Bill No. 15
Paintwork (Provisional)

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Block C - Typical 8 Classroom Block			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></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>Carried to Collection</p>			R
<p>Block E - Typical 6 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 E - Typical 6 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 E - Typical 6 Classroom Block
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	100mm Thick surface beds	m2	122
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Breaking down and removing brickwork etc

2	One brick walls	m2	60
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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 ²	No	11
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4	Servicing of existing steel windows with new hinges, latches, etc	No	47
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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

5	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	583
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

6	Double pitched timber roof structure with two gable ends, overall size 29.71 x 9.28 x 1.70m high including wall plates, bracing etc.	m2	583
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7	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	335
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8	297 x 70mm Laminated timber beam at eaves of gable roof	m	50
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9	Barge boards	m	23
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10	Fascia boards	m	101
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11	Eaves gutters	m	101
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12	Rainwater pipes	m	43
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Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 1
Alterations (Provisional)

R

Mzuvele High School
General Repairs and Renovations

	<u>Taking out and removing ironmongery</u>				
13	Pinning boards approximately 1200 x 1200mm high including fixings, etc., and cart off site	No	3		
14	Pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	6		
15	Chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	6		
	<u>Taking out/off and removing sundry metalwork</u>				
16	Steel single leaf security gate not exceeding 2,5m ²	No	8		
	<u>Hacking up/off and removing floor tile and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>				
17	Vinyl floor tiles	m2	335		
	<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>				
18	30mm Screed from floors	m2	425		
19	Internal plaster from walls and columns	m2	336		
	<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	23		
	<u>MAKING GOOD OF FINISHES, ETC</u>				
	<u>Cleaning brickwork</u>				
21	Acid cleaning internal face brickwork at dado level with high pressure cleaner and leave walls clean, in perfect condition and re-apply two coats of clear gloss face brick sealer	m2	158		
22	Acid cleaning external face brickwork with high pressure cleaner and leave walls clean, in perfect condition	m2	307		
	Carried to Collection			R	
	Block E - Typical 6 Classroom Block				
	Bill No. 1				
	Alterations (Provisional)				

MAKING GOOD OF EXISTING WORKS

23	Repairs to existing surface beds, including filling in cracks, with concrete crack injection or any other approved filler, stitching as required, etc	m2	10		
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METAL STITCHING

24	Hacking up/off and removing plaster from walls, columns and beams	m2	10		
25	Chipout 40 x 10mm mortar joint between brickwork courses and clean out joint with an air compressor	m	50		
26	19mm Diameter Thorhelical or similar approved helical bar inserted midway between structural cracks	m	50		
27	Grout 40 x 10mm joint between brick courses	m	50		
28	Internal plaster on walls	m2	10		
29	One coat primer, one universal undercoat and two coats quality pva paint	m2	10		

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 1
Alterations (Provisional)

R

Bill No. 1

Alterations (Provisional)

COLLECTION

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Block E - Typical 6 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

122

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 2
Earthworks (Provisional)

R

Bill No. 2

Earthworks (Provisional)

COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 2
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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"			
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	16
Carried to Collection			R
Block E - Typical 6 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

122

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

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

m

126

REINFORCEMENT

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

122

Carried to Collection

Block E - Typical 6 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

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

COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

R

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Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	583	
2	Ridge cappings 475mm girth	m	50	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	583	
Carried Forward to Summary of Section No. 5				R
Block E - Typical 6 Classroom Block				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block E - Typical 6 Classroom Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 9343 x 1700mm high overall with 700mm eaves projection on both sides	No	42		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to steel post	m	50		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	101		
4	50 x 76mm Purlins	m	704		
5	38 x 114mm Bracing	m	55		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	87		
7	Two coats creosote on sawn timbers	m2	87		
	<u>EAVES, VERGES, ETC</u>				
	<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	101		
Carried to Collection					
Block E - Typical 6 Classroom Block					
Bill No. 6					
Carpentry and Joinery (Provisional)					

R

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel 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	8
	<u>Semi-solid flush doors with commercial veneer suitable for painting</u>		
11	44mm Door 813 x 2032mm high	No	3

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Bill No. 6
Carpentry and Joinery (Provisional)

COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	335	
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	7	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	210	
	Carried Forward to Summary of Section No. 5			
	Block E - Typical 6 Classroom Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

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Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block E - Typical 6 Classroom Block			
Bill No. 9			
Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	22		
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LOCKS

Manufactured by "Union" or other equal and approved

2	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	11		
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SUNDRIES

Manufactured by "Union" or other equal and approved

3	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	11		
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**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

4	Pinning board size 1200 x 1200mm high plugged	No	3		
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5	Pinning board size 2400 x 1200mm high plugged	No	6		
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6	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	6		
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Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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, etc.	No	8
<u>GALVANISED STEEL MINOR WORK</u>			
<u>Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors</u>			
2	100mm Diameter x 2650mm high galvanised mild steel support post including base plates etc. with timber beam over to support roof above (Timber beam elsewhere)	No	15
Carried Forward to Summary of Section No. 5			R
Block E - Typical 6 Classroom Block			
Bill No. 10			
Metalwork (Provisional)			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block E - Typical 6 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 E - Typical 6 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	101
2	100mm Diameter rainwater pipes	m	43
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 shoe	No	12
7	Extra over rainwater pipe for plinth bend	No	6

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

8	Excavate average 125mm deep in earth to form "V" drain profile	m3	16	
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Concrete, Formwork and Reinforcing

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

9	"V" drains	m3	16	
10	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	122	
11	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	126	
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	122	
13	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	118	

SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

14	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	2	
15	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20	

Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings

16	110mm Bend	No	4	
17	110mm Tee	No	12	
18	110mm Access bend	No	21	
19	110mm Access tee	No	4	

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

20	110mm Rodding eye	No	3
21	110mm Straight reducer	No	5
22	110mm Pan connector	No	13
23	110mm Vent iron cowl	No	5
<u>SANITARY FITTINGS</u>			
<u>"Vaal" or other equal and approved</u>			
24	School type lavatory wash hand basin fixed to wall	No	7
25	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	13
26	Lavatera 70400 1/2 wall urinal with spreader, waste union, and FJT5.5 flushpipe (flush valve elsewhere)	No	4
27	1200 x 535mm Single centre bowl sink	No	1
<u>WASTE UNIONS ETC</u>			
<u>"Cobra Watertech" or other equal and approved</u>			
28	32mm 301 CP basin waste union	No	8
<u>TRAPS ETC</u>			
<u>UPVC</u>			
29	110mm Two way vent valve	No	5
<u>Rubber</u>			
30	50mm "P" or "S" trap	No	25
<u>"Elf"</u>			
31	75mm VA3.113 CP hinged urinal domical grating	No	4
<u>TAPS, VALVES, ETC</u>			
32	PA3.522 "Masterflo" pressure control valve with vacuum breaker	No	2
Carried to Collection			
Block E - Typical 6 Classroom Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

R

Mzuvele High School
General Repairs and Renovations

33	FJ100CP "Flushmaster Junior" urinal flush valve	No	4
34	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	1
35	22mm Isolating Valve with handle nickel plated	No	25
36	PA3.132 "Masterflo" pressure control valve with vacuum breaker	No	1
37	FJ2100CP Cobra Flushmaster Junior flush valve	No	4
38	15mm 111-15CP pillar tap	No	7
<u>SANITARY PLUMBING</u>			
<u>uPVC soil and vent pipes</u>			
39	50mm Pipes	m	50
<u>Extra over uPVC soil and vent pipes for fittings</u>			
40	50mm Bend	No	4
41	50mm Access bend	No	12
42	50mm Tee junction	No	17
43	50mm Vent cowl	No	4
<u>WATER SUPPLIES</u>			
<u>Class 1 copper pipes with capillary couplings</u>			
44	22mm Pipes	m	65
45	28mm Pipes	m	15
46	32mm Pipes	m	5
<u>Extra over Class 1 copper pipes for capillary fittings</u>			
47	22mm Fittings	No	45
48	28mm Fittings	No	12
49	32mm Fittings	No	32
Carried to Collection			
Block E - Typical 6 Classroom Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

R

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Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK E</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	470
Carried to Collection			R
Block E - Typical 6 Classroom Block Bill No. 13 Electrical work (Provisional)			

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Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	62
17	Standard draw box for 20mm conduit	No	62
18	50 x 100 x 50mm Outlet box	No	62
19	100 x 100 x 50mm Outlet box	No	62
20	100 x 100 x 50mm Outlet box with blank cover plate	No	62

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

21	1.5mm ²	m	290
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DRAW-WIRES

22	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

23	Flush mounted bell push button	No	1
24	16A Flush mounted two lever one-way switch unit	No	11
25	16A Three pin flush mounted socket outlet with switch, single type	No	15

LUMINAIRES

26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	47
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SUNDRIES

27	Earthing of buildings	Item	
28	Provision of as built drawings	Item	

Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 13
Electrical work (Provisional)

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Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block E - Typical 6 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	336
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	335
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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	61
---	---	----	----

ON WOOD SURFACES

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

4	Laminated beam	m2	37
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5	Doors	m2	38
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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

6	Windows	m2	116
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7	Door frame	m2	18
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Carried to Collection

Block E - Typical 6 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block E - Typical 6 Classroom Block
Bill No. 15
Paintwork (Provisional)

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Bill No	SECTION SUMMARY - Block E - Typical 6 Classroom Block	Page No	Amount
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3	Concrete, Formwork and Reinforcement (Provisional)	181	
4	Masonry (Provisional)	182	
5	Roof Coverings (Provisional)	183	
6	Carpentry and Joinery (Provisional)	187	
7	Ceilings, Partitions and Access Flooring (Provisional)	188	
8	Floor Coverings, Wall Linings, etc. (Provisional)	189	
9	Ironmongery (Provisional)	192	
10	Metalwork (Provisional)	193	
11	Plastering (Provisional)	194	
12	Plumbing and Drainage (Provisional)	202	
13	Electrical work (Provisional)	207	
14	Glazing (Provisional)	208	
15	Paintwork (Provisional)	211	
Carried to Final Summary			R
Block E - Typical 6 Classroom Block			

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection		R	
Block E - Ablutions			
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 E - Ablutions
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 E - Ablutions
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	Steps	m3	1
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Breaking up and removing unreinforced concrete

2	100mm Thick surface beds	m2	29
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Breaking down and removing brickwork etc

3	One brick walls	m2	9
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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 ²	No	10
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5	Servicing of existing steel windows with new timber louvres, hinges, latches etc	No	8
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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	52
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Double pitch timber roof structure with two gable ends, overall size 12.55 x 7.65 x 1.50m high including wall plates, bracing etc.	m2	52
---	--	----	----

8	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	35
---	---	----	----

9	Barge boards	m	18
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10	Fascia boards	m	11
----	---------------	---	----

11	Eaves gutters	m	11
----	---------------	---	----

Carried to Collection

R

Block E - Ablutions
Bill No. 1
Alterations (Provisional)

Mzuvele High School
General Repairs and Renovations

12	Rainwater pipes	m	6
	<u>Taking out and removing ironmongery</u>		
13	Toilet paper holder from wall	No	8
	<u>Taking out/off and removing sundry metalwork</u>		
14	Steel single leaf security gate not exceeding 2,5m ²	No	2
	<u>Hacking up/off and removing tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>		
15	Ceramic wall tiles	m2	2
16	Ceramic floor tiles	m2	33
	<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	33
18	Internal plaster from walls	m2	145
	<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>		
19	PVC piping not exceeding 50mm diameter	m	45
20	PVC piping exceeding 100mm and not exceeding 200mm diameter	m	20
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
21	Vitreous china wash hand basin	No	6
22	Vitreous china WC pan with cistern and flush pipe	No	8

Carried to Collection

R

Block E - Ablutions
Bill No. 1
Alterations (Provisional)

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Bill No. 1

Alterations (Provisional)

COLLECTION

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Block E - Ablutions

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

38

Carried to Collection

R

Block E - Ablutions
Bill No. 2
Earthworks (Provisional)

Bill No. 2

Earthworks (Provisional)

COLLECTION

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Amount

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Block E - Ablutions
Bill No. 2
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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"			
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	5
Carried to Collection			R
Block E - Ablutions			
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

1

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

- 3 Surface beds, slabs, etc

m2

38

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

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

m

38

REINFORCEMENT

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

38

Carried to Collection

Block E - Ablutions

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

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

COLLECTION

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Block E - Ablutions
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

R

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Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	52	
2	Ridge cappings 475mm girth	m	6	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	52	
Carried Forward to Summary of Section No. 6				R
Block E - Ablutions				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block E - Ablutions			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 10525 x 1700mm high overall with 700mm eaves projection on both sides	No	5		
	<u>Sawn softwood</u>				
2	38 x 114mm Wall plates	m	10		
3	50 x 76mm Purlins	m	69		
4	38 x 114mm Bracing	m	6		
	<u>Sundries</u>				
5	Wrought faces on sawn timbers	m2	4		
6	Two coats creosote on sawn timbers	m2	4		
	<u>EAVES, VERGES, ETC</u>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
7	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	18		
8	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	11		
Carried to Collection				R	
Block E - Ablutions					
Bill No. 6					
Carpentry and Joinery (Provisional)					

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel frames

- 9 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

Semi-solid flush doors with commercial veneer suitable for painting

- 10 44mm Door 813 x 2032mm high

No

8

Carried to Collection

R

Block E - Ablutions
Bill No. 6
Carpentry and Joinery (Provisional)

Bill No. 6

Carpentry and Joinery (Provisional)

COLLECTION

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Block E - Ablutions

Bill No. 6

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	35	
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	1	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	34	
	Carried Forward to Summary of Section No. 6			
	Block E - Ablutions			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

Item No	Quantity	Rate	Amount
BILL NO. 8			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block E - Ablutions Bill No. 8 Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	20
2	WC chrome plated indicator bolt	No	8

LOCKS

Manufactured by "Union" or other equal and approved

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	2
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LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

4	150 x 150mm Anodised aluminium plate with male symbol	No	1
5	150 x 150mm Anodised aluminium plate with female symbol	No	1

SUNDRIES

Manufactured by "Union" or other equal and approved

6	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	10
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Carried to Collection

Block E - Ablutions
Bill No. 8
Ironmongery (Provisional)

R

BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

[illegible]

Bill No. 8

Ironmongery (Provisional)

COLLECTION

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No**

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Amount

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Block E - Ablutions

Bill No. 8

Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<u>Welded screens and gates</u>			
1	No	2	
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, etc.			
Carried Forward to Summary of Section No. 6			R
Block E - Ablutions			
Bill No. 9			
Metalwork (Provisional)			

[illegible]

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection		R	
Block E - Ablutions			
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 E - Ablutions
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	11
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	4
6	Extra over rainwater pipe for shoe	No	2

Carried to Collection

Block E - Ablutions
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

7	Excavate average 125mm deep in earth to form "V" drain profile	m3	5	
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Concrete, Formwork and Reinforcing

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

8	"V" drains	m3	5	
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9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	38	
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10	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	42	
----	---	---	----	--

11	Type 193 fabric reinforcement in concrete surface beds etc	m2	38	
----	--	----	----	--

12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	34	
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SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1	
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14	110mm Pipes laid in and including trenches not exceeding 1m deep	m	29	
----	--	---	----	--

Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings

15	110mm Bend	No	8	
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16	110mm Tee	No	1	
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17	110mm Access bend	No	7	
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18	110mm Access tee	No	1	
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Carried to Collection

Block E - Ablutions
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

19	110mm Rodding eye	No	2
20	110mm Straight reducer	No	8
21	22mm Socket	No	6
22	28mm Socket	No	2
23	110mm Pan connector	No	8
24	110mm PVC to vent iron connector	No	2
25	110mm Vent iron cowl	No	2
<u>SANITARY FITTINGS</u>			
<u>"Vaal" or other equal and approved</u>			
26	School type lavatory wash hand basin fixed to wall	No	6
27	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	8
<u>WASTE UNIONS ETC</u>			
<u>"Cobra Watertech" or other equal and approved</u>			
28	32mm 301 CP basin waste union	No	6
<u>TRAPS ETC</u>			
<u>UPVC</u>			
29	110mm Two way vent valve	No	4
<u>Rubber</u>			
30	50mm "P" or "S" trap	No	8
<u>TAPS, VALVES, ETC</u>			
31	PA3.522 "Masterflo" pressure control valve with vacuum breaker	No	2
32	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	15
Carried to Collection			
Block E - Ablutions			
Bill No. 12			
Plumbing and Drainage (Provisional)			

R

Mzuvele High School
General Repairs and Renovations

[illegible]

WATER SUPPLIES

Class 1 copper pipes with capillary couplings

48	22mm Pipes	m	33
49	28mm Pipes	m	58
50	32mm Pipes	m	13

Extra over Class 1 copper pipes for capillary fittings

51	22mm Fittings	No	93
52	28mm Fittings	No	21
53	32mm Fittings	No	6

Testing

54	Testing water pipe system	Item	
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Carried to Collection

Block E - Ablutions
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

Bill No. 12

Plumbing and Drainage (Provisional)

COLLECTION

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Block E - Ablutions

Bill No. 12

Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>GLAZING (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Float glass</u>			
The term "float glass" is used for monolithic annealed glass			
<u>GLAZING TO STEEL WITH PUTTY</u>			
<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	6
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
<u>4mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
2	Mirror 450 x 600mm high with four screws	No	24
Carried Forward to Summary of Section No. 6			R
Block E - Ablutions			
Bill No. 13			
Glazing (Provisional)			

Item No	Quantity	Rate	Amount
<u>BILL NO. 14</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block E - Ablutions			
Bill No. 14			
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	836		
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	192		
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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	46		
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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	139		
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PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK

ON BAGGED BRICKWORK OR CONCRETE SURFACES

One coat alkali resistant primer and two coats PVA emulsion paint for interior use

5	Ceilings and beams	m2	192		
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Carried to Collection

Block E - Ablutions
Bill No. 14
Paintwork (Provisional)

R

ON METAL SURFACES

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

6	Windows	m2	14
7	Handrails	m2	31

Carried to Collection

Block E - Ablutions
Bill No. 14
Paintwork (Provisional)

R

Bill No. 14
Paintwork (Provisional)

COLLECTION

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Block E - Ablutions
Bill No. 14
Paintwork (Provisional)

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Bill No	SECTION SUMMARY - Block E - Ablutions	Page No	Amount
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2	Earthworks (Provisional)	222	
3	Concrete, Formwork and Reinforcement (Provisional)	225	
4	Masonry (Provisional)	226	
5	Roof Coverings (Provisional)	227	
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Block E - Ablutions			

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block F - 10 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 F - 10 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 F - 10 Classroom Block
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	100mm Thick surface beds	m2	168
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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 ²	No	8
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4	Servicing of existing steel windows with new hinges, latches, etc	No	56
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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

5	Asbestos roof sheets, including all timber purlins, fixings, etc.	m2	851
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

6	Double pitched timber roof structure with two gable ends, overall size 58.21 x 9.28 x 1.70m high including wall plates, bracing etc.	m2	851
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7	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	494
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8	297 x 70mm Laminated timber beam at eaves of gable roof	m	73
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9	Barge boards	m	23
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10	Fascia boards	m	118
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11	Eaves gutters	m	118
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12	Rainwater pipes	m	57
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Carried to Collection

Block F - 10 Classroom Block
Bill No. 1
Alterations (Provisional)

R

MAKING GOOD OF EXISTING WORKS

22	Repairs to existing surface beds, including filling in cracks, with concrete crack injection or any other approved filler, stitching as required, etc	m2	5
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METAL STITCHING

23	Hacking up/off and removing plaster from walls, columns and beams	m2	10
24	Chipout 40 x 10mm mortar joint between brickwork courses and clean out joint with an air compressor	m	50
25	19mm Diameter Thorhelical or similar approved helical bar inserted midway between structural cracks	m	50
26	Grout 40 x 10mm joint between brick courses	m	50
27	Internal plaster on walls	m2	10
28	One coat primer, one universal undercoat and two coats quality pva paint	m2	10

Carried to Collection

Block F - 10 Classroom Block
Bill No. 1
Alterations (Provisional)

R

Bill No. 1

Alterations (Provisional)

COLLECTION

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Block F - 10 Classroom Block

Bill No. 1

Alterations (Provisional)

R

[illegible]

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	139	
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Carried to Collection

Block F - 10 Classroom Block
Bill No. 2
Earthworks (Provisional)

R

Bill No. 2

Earthworks (Provisional)

COLLECTION

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Amount

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Block F - 10 Classroom Block
Bill No. 2
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	18
Carried to Collection			R
Block F - 10 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

1

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

- 3 Surface beds, slabs, etc

m2

139

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

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

m

143

REINFORCEMENT

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

139

Carried to Collection

Block F - 10 Classroom Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

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

COLLECTION

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Block F - 10 Classroom Block
Bill No. 3
Concrete, Formwork and Reinforcement (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>MASONRY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<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			
<u>BRICKWORK</u>			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	12
<u>2,5mm Galvanised brick reinforcement</u>			
2	150mm Wide reinforcement built in horizontally	m	23
Carried Forward to Summary of Section No. 7			R
Block F - 10 Classroom Block			
Bill No. 4			
Masonry (Provisional)			

Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	851	
2	Ridge cappings 475mm girth	m	73	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	851	
Carried Forward to Summary of Section No. 7				R
Block F - 10 Classroom Block				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block F - 10 Classroom Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 9343 x 1700mm high overall with 700mm eaves projection on both sides	No	62		
	<u>Wrought laminated Saligna</u>				
2	297 x 70mm Beam bolted to brick piers	m	73		
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	147		
4	50 x 76mm Purlins	m	1,027		
5	38 x 114mm Bracing	m	65		
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	104		
7	Two coats creosote on sawn timbers	m2	104		
	<u>EAVES, VERGES, ETC</u>				
	<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	147		
Carried to Collection				R	
Block F - 10 Classroom Block					
Bill No. 6					
Carpentry and Joinery (Provisional)					

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel 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

10

Carried to Collection

Block F - 10 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Bill No. 6

Carpentry and Joinery (Provisional)

COLLECTION

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Block F - 10 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	494	
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	10	
	<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	281	
	Carried Forward to Summary of Section No. 7			
	Block F - 10 Classroom Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

R

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block F - 10 Classroom Block			
Bill No. 9			
Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	16	
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LOCKS

Manufactured by "Union" or other equal and approved

2	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	8	
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SUNDRIES

Manufactured by "Union" or other equal and approved

3	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	8	
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**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

4	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	
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5	Pinning board size 2400 x 1200mm high plugged	No	8	
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Carried to Collection

Block F - 10 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block F - 10 Classroom Block
Bill No. 9
Ironmongery (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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, etc.	No	8
<u>GALVANISED STEEL MINOR WORK</u>			
<u>Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors</u>			
2	100mm Diameter x 2650mm high galvanised mild steel support post including base plates etc. with timber beam over to support roof above (Timber beam elsewhere)	No	21
Carried Forward to Summary of Section No. 7			R
Block F - 10 Classroom Block			
Bill No. 10			
Metalwork (Provisional)			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block F - 10 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 F - 10 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	118
2	100mm Diameter rainwater pipes	m	57
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	14
5	Extra over rainwater pipe for bend	No	28
6	Extra over rainwater pipe for shoe	No	14
7	Extra over rainwater pipe for plinth bend	No	4

Carried to Collection

Block F - 10 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

8	Excavate average 125mm deep in earth to form "V" drain profile	m3	18
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Concrete, Formwork and Reinforcing

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

9	"V" drains	m3	18
10	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	139
11	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	143
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	139
13	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	135

FIRE APPLIANCES ETC

14	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2
15	10kg Carbon dioxide fire extinguisher	No	1

Fire hydrant pedestals

16	100mm "Storz" type fire Hydrant complete	No	3
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WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

17	20 NB screwed socket	m	21
18	25 NB screwed union	No	17

Carried to Collection

Block F - 10 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

19	25 NB screwed barrel nipple screwed	No	21
20	50 NB screwed type	m	64
21	50 NB screwed union	No	7
22	50 NB screwed nipple	No	4
23	50 NB galvanised SANS62 medium elbow	No	9
24	50/25 NB Galvanised screw type reducing tee	No	8
25	Flushing of pipework and pressure testing of whole system		Item
26	Commissioning of Complete System		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
27	150 x 150mm Sign	No	11
28	Provision of fire plan in laminated A3 size	No	1
29	Emergency assembly point sign with steel pole and mass concrete base	No	1
30	Hydrant and Arrow sign (290x290mm size per sign) with steel pole and mass concrete base.	No	1

Carried to Collection

Block F - 10 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block F - 10 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK F</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	700
Carried to Collection			R
Block F - 10 Classroom Block Bill No. 13 Electrical work (Provisional)			

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Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	90		
17	Standard draw box for 20mm conduit	No	90		
18	50 x 100 x 50mm Outlet box	No	90		
19	100 x 100 x 50mm Outlet box	No	90		
20	100 x 100 x 50mm Outlet box with blank cover plate	No	90		
<u>CONDUCTORS</u>					
<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>					
21	1.5mm ²	m	290		
<u>DRAW-WIRES</u>					
22	Galvanised steel draw-wires drawn into conduit	m	290		
<u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u>					
23	Flush mounted bell push button	No	1		
24	16A Flush mounted two lever one-way switch unit	No	12		
25	16A Three pin flush mounted socket outlet with switch, single type	No	20		
<u>LUMINAIRES</u>					
26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	70		
<u>SUNDRIES</u>					
27	Earthing of buildings		Item		
28	Provision of as built drawings		Item		
Carried to Collection				R	
Block F - 10 Classroom Block					
Bill No. 13					
Electrical work (Provisional)					

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Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block F - 10 Classroom Block
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 14</u>			
<u>GLAZING (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Float glass</u>			
The term "float glass" is used for monolithic annealed glass			
<u>GLAZING TO STEEL WITH PUTTY</u>			
<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	34
Carried Forward to Summary of Section No. 7			R
Block F - 10 Classroom Block Bill No. 14 Glazing (Provisional)			

Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block F - 10 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	428	
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	494	
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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	Laminated beam	m2	43	
5	Doors	m2	28	

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

6	Windows	m2	168	
7	Door frame	m2	16	

Carried to Collection

Block F - 10 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block F - 10 Classroom Block
Bill No. 15
Paintwork (Provisional)

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Mzuvele High School
General Repairs and Renovations

Bill No	SECTION SUMMARY - Block F - 10 Classroom Block	Page No	Amount
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Carried to Final Summary			
Block F - 10 Classroom Block			

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
		R	
Carried to Collection			
Block G - Hall With Exam Classroom			
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 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 - Hall With Exam Classroom
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 - Hall With Exam Classroom
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	Steps	m3	2
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Breaking up and removing unreinforced concrete

2	100mm Thick surface beds	m2	119
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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 ²	No	8
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4	Timber double door exceeding 2,5m ² and not exceeding 5m ²	No	1
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5	Servicing of existing steel windows, size 1000 x 1200mm with new hinges, latches, etc	No	6
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6	Ditto, but size 4400 x 1200mm	No	8
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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

7	Asbestos roof sheets from steel portal frame structure	m2	666
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

8	Ceilings including cornices, etc	m2	266
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9	Barge boards	m	68
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10	Fascia boards	m	52
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11	Eaves gutters	m	52
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12	Rainwater pipes	m	23
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Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 1
Alterations (Provisional)

R

Mzuvele High School
General Repairs and Renovations

	<u>Taking out and removing ironmongery</u>				
13	Pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	4		
14	Chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	4		
	<u>Taking out/off and removing sundry metalwork</u>				
15	Steel single leaf security gate not exceeding 2,5m ²	No	9		
16	Steel double leaf security gate exceeding 2,5m ² and not exceeding 5m ²	No	2		
	<u>Hacking up/off and removing floor tile and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>				
17	Vinyl floor tiles	m2	559		
	<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>				
18	30mm Screed from floors	m2	616		
19	Internal plaster from walls and columns	m2	895		
	<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	20		
	<u>MAKING GOOD OF FINISHES, ETC</u>				
	<u>Cleaning brickwork</u>				
21	Acid cleaning internal face brickwork at dado level with high pressure cleaner and leave walls clean, in perfect condition and re-apply two coats of clear gloss face brick sealer	m2	261		
Carried to Collection				R	
Block G - Hall With Exam Classroom					
Bill No. 1					
Alterations (Provisional)					

Bill No. 1

Alterations (Provisional)

COLLECTION

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Block G - Hall With Exam Classroom

Bill No. 1

Alterations (Provisional)

R

[illegible]

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

119

Carried to Collection

Block G - Hall With Exam Classroom
 Bill No. 2
 Earthworks (Provisional)

R

Bill No. 2

Earthworks (Provisional)

COLLECTION

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Block G - Hall With Exam Classroom
Bill No. 2
Earthworks (Provisional)

R

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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"			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	24	
	Carried to Collection		R	
	Block G - Hall With Exam Classroom 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

119

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

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

m

123

REINFORCEMENT

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

119

Carried to Collection

Block G - Hall With Exam Classroom

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

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

COLLECTION

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

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>MASONRY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<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			
<u>BRICKWORK</u>			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	1
<u>2.5mm Galvanised brick reinforcement</u>			
2	150mm Wide reinforcement built in horizontally	m	2
Carried Forward to Summary of Section No. 8			R
Block G - Hall With Exam Classroom			
Bill No. 4			
Masonry (Provisional)			

Item No			Quantity	Rate	Amount
	<u>BILL NO. 5</u>				
	<u>ROOF COVERINGS (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary items or materials</u>				
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
	<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	666		
2	Ridge cappings 475mm girth	m	19		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	666		
	Carried Forward to Summary of Section No. 8			R	
	Block G - Hall With Exam Classroom				
	Bill No. 5				
	Roof Coverings (Provisional)				

[illegible]

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel 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	7
4	Ditto, but double door 1600 x 2032mm high with rebated meeting edges	No	1
<u>Semi-solid flush doors with commercial veneer suitable for painting</u>			
5	44mm Door 813 x 2032mm high	No	1

Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 6
Carpentry and Joinery (Provisional)

R

Bill No. 6

Carpentry and Joinery (Provisional)

COLLECTION

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Block G - Hall With Exam Classroom

Bill No. 6

Carpentry and Joinery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>NAILED-UP CEILINGS</u>			
<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	666
<u>Nucornice foam plastic cornices</u>			
2	75mm Coved cornices	m	120
Carried Forward to Summary of Section No. 8			R
Block G - Hall With Exam Classroom			
Bill No. 7			
Ceilings, Partitions and Access Flooring (Provisional)			

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block G - Hall With Exam Classroom			
Bill No. 9			
Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	20		
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LOCKS

Manufactured by "Union" or other equal and approved

2	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	8		
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3	Solid art 390/313 Four Lever complete mortice lockset for double door with and including Satin Chrome Plated handles and strike plates etc.	No	1		
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SUNDRIES

Manufactured by "Union" or other equal and approved

4	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	10		
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**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System"

5	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	7		
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6	Pinning board size 2400 x 1200mm high plugged	No	7		
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Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 9
Ironmongery (Provisional)

R

Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block G - Hall With Exam Classroom
Bill No. 9
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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, etc.	No	7
2	Double hot dipped galvanised mild steel gate, 1800mm 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 50mm brass padlock and all other ironmongery to fix on wall	No	1
Carried Forward to Summary of Section No. 8			R
Block G - Hall With Exam Classroom			
Bill No. 10			
Metalwork (Provisional)			

[illegible]

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	Carried to Collection		R	
	Block G - Hall With Exam Classroom 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 G - Hall With Exam Classroom
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	52
2	100mm Diameter rainwater pipes	m	23
3	Extra over gutter for stopped end	No	8
4	Extra over gutter for outlet for 100mm pipe	No	8
5	Extra over rainwater pipe for bend	No	16
6	Extra over rainwater pipe for shoe	No	8
7	Extra over rainwater pipe for plinth bend	No	4

Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 12
Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

8	Excavate average 125mm deep in earth to form "V" drain profile	m3	15	
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Concrete, Formwork and Reinforcing

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

9	"V" drains	m3	15	
10	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	119	
11	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	123	
12	Type 193 fabric reinforcement in concrete surface beds etc	m2	119	
13	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	115	

FIRE APPLIANCES ETC

14	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2	
15	10kg Carbon dioxide fire extinguisher	No	1	

Fire hydrant pedestals

16	100mm "Storz" type fire Hydrant complete	No	3	
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WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

17	20 NB screwed socket	m	21	
18	25 NB screwed union	No	17	

Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

19	25 NB screwed barrel nipple screwed	No	21
20	50 NB screwed type	m	64
21	50 NB screwed union	No	7
22	50 NB screwed nipple	No	4
23	50 NB galvanised SANS62 medium elbow	No	9
24	50/25 NB Galvanised screw type reducing tee	No	8
25	Flushing of pipework and pressure testing of whole system		Item
26	Commissioning of Complete System		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
27	150 x 150mm Sign	No	11
28	Provision of fire plan in laminated A3 size	No	1
29	Emergency assembly point sign with steel pole and mass concrete base	No	1
30	Hydrant and Arrow sign (290x290mm size per sign) with steel pole and mass concrete base.	No	1

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Block G - Hall With Exam Classroom
Bill No. 12
Plumbing and Drainage (Provisional)

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Plumbing and Drainage (Provisional)
COLLECTION

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Bill No. 12
Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK G</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	120
Carried to Collection			R
Block G - Hall With Exam Classroom Bill No. 13 Electrical work (Provisional)			

[illegible]

Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	113
17	Standard draw box for 20mm conduit	No	113
18	50 x 100 x 50mm Outlet box	No	113
19	100 x 100 x 50mm Outlet box	No	113
20	100 x 100 x 50mm Outlet box with blank cover plate	No	113

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

21	1.5mm ²	m	290
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DRAW-WIRES

22	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

23	Flush mounted bell push button	No	1
24	16A Flush mounted two lever one-way switch unit	No	2
25	16A Three pin flush mounted socket outlet with switch, single type	No	101

LUMINAIRES

26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	12
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SUNDRIES

27	Earthing of buildings	Item	
28	Provision of as built drawings	Item	

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Block G - Hall With Exam Classroom
Bill No. 13
Electrical work (Provisional)

R

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Bill No. 13
Electrical work (Provisional)

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Bill No. 13
Electrical work (Provisional)

R

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block G - Hall With Exam Classroom			
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	895	
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	666	
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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	64	
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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	35	
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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

5	Windows	m2	99	
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6	Door frame	m2	28	
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Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 15
Paintwork (Provisional)

R

ON STRUCTURAL STEELWORK

Prepare and apply touch-up coat of zinc chromate metal primer (UC.53), one universal undercoat (UC.1) to three micron dry film thickness and two coats universal gloss enamel paint to eight micron dry film thickness

7	Portal frame structure	t	4.00
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Carried to Collection

Block G - Hall With Exam Classroom
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block G - Hall With Exam Classroom
Bill No. 15
Paintwork (Provisional)

R	
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Bill No	SECTION SUMMARY - Block G - Hall With Exam Classroom	Page No	Amount
1	Alterations (Provisional)	301	
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3	Concrete, Formwork and Reinforcement (Provisional)	307	
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5	Roof Coverings (Provisional)	309	
6	Carpentry and Joinery (Provisional)	312	
7	Ceilings, Partitions and Access Flooring (Provisional)	313	
8	Floor Coverings, Wall Linings, etc. (Provisional)	314	
9	Ironmongery (Provisional)	317	
10	Metalwork (Provisional)	318	
11	Plastering (Provisional)	319	
12	Plumbing and Drainage (Provisional)	325	
13	Electrical work (Provisional)	330	
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Carried to Final Summary			R
Block G - Hall With Exam Classroom			

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			R
Block H - Typical 3 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 H - Typical 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 H - Typical 3 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	77
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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 ²	No	3
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5	Servicing of existing steel windows with new hinges, latches etc	No	6
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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	276
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Timber rafters forming a double pitch roof on laminated timber beam apex (laminated timber beam elsewhere), including wall plates, timber supports and bracing on eaves	m	335
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8	297 x 70mm Laminated timber beam at apex of gable roof	m	24
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9	Barge boards	m	23
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10	Fascia boards	m	49
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11	Eaves gutters	m	49
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Carried to Collection

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

R

Mzuvele High School
General Repairs and Renovations

12	Rainwater pipes	m	19
	<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 ²	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	208
17	Internal plaster from walls and columns	m2	209
	<u>Taking out/off and removing glass and mirrors</u>		
18	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	7
	<u>MAKING GOOD OF FINISHES, ETC</u>		
	<u>Cleaning brickwork</u>		
19	Acid cleaning internal face brickwork at dado level with high pressure cleaner and leave walls clean, in perfect condition and re-apply two coats of clear gloss face brick sealer	m2	120
20	Acid cleaning external face brickwork with high pressure cleaner and leave walls clean, in perfect condition	m2	173
	<u>MAKING GOOD OF EXISTING WORKS</u>		
21	Repairs to existing surface beds, including filling up cracks, with an approved filler, stitching as required, etc	m2	22
Carried to Collection			
Block H - Typical 3 Classroom Block			
Bill No. 1			
Alterations (Provisional)			

R

Bill No. 1

Alterations (Provisional)

COLLECTION

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

R

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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

70

Carried to Collection

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

R

Bill No. 2

Earthworks (Provisional)

COLLECTION

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

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Bases	m3	2
Carried to Collection			R
Block H - Typical 3 Classroom Block Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)			

REINFORCED CONCRETE CAST ON/IN FORMWORK

25MPa/19mm concrete

2	Surface beds on waterproofing	m3	9	
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TEST CUBES

3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2	
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

4	Surface beds, slabs, etc	m2	70	
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	74	
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REINFORCEMENT

Fabric reinforcement

6	Type 193 fabric reinforcement in concrete surface beds etc	m2	70	
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Carried to Collection

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

R

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

COLLECTION

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

R

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Item No		Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<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	256	
2	Ridge cappings 475mm girth	m	25	
<u>ROOF AND WALL INSULATION</u>				
<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	256	
Carried Forward to Summary of Section No. 9				R
Block H - Typical 3 Classroom Block				
Bill No. 5				
Roof Coverings (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block H - Typical 3 Classroom Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 9220 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	48		
4	50 x 76mm Purlins	m	294		
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		
	<u>EAVES, VERGES, ETC</u>				
	<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	21		
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	49		
Carried to Collection				R	
Block H - Typical 3 Classroom Block					
Bill No. 6					
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 H - Typical 3 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Bill No. 6
Carpentry and Joinery (Provisional)
COLLECTION

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Block H - Typical 3 Classroom Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>NAILED-UP CEILINGS</u>			
	<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	163	
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	88	
	Carried Forward to Summary of Section No. 9			
	Block H - Typical 3 Classroom Block			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring (Provisional)			

Mzuvele High School
General Repairs and Renovations

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Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			
Block H - Typical 3 Classroom Block			
Bill No. 9			
Ironmongery (Provisional)			

HINGES, BOLTS, ETC

"Union" or other equally approved

1 100mm Aluminium butt hinge

No

6

LOCKS

Manufactured by "Union"

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

No

3

SUNDRIES

Manufactured by "Union"

3 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"

4 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

5 Pinning board size 2400 x 1200mm high plugged

No

3

Carried to Collection

R

Block H - Typical 3 Classroom Block
Bill No. 9
Ironmongery (Provisional)

Bill No. 9
Ironmongery (Provisional)
COLLECTION

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Block H - Typical 3 Classroom Block
Bill No. 9
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<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
<u>GALVANISED STEEL MINOR WORK</u>			
<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)	No	7
Carried Forward to Summary of Section No. 9			R
Block H - Typical 3 Classroom Block			
Bill No. 10			
Metalwork (Provisional)			

	Quantity	Rate	Amount
<u>BILL NO. 11</u>			
<u>PLASTERING (PROVISIONAL)</u>			
<u>INTERNAL PLASTER</u>			
<u>SCREEDS</u>			
<u>Screeds steel trowelled, on concrete</u>			
30mm Thick on floors and landings	m2	208	
<u>GRANOLITHIC</u>			
<u>Untinted granolithic, on concrete</u>			
30mm Thick on floors and landings	m2	46	
<u>Cement plaster steel trowelled, on brickwork</u>			
On walls	m2	209	
On narrow widths	m2	14	
Carried Forward to Summary of Section No. 9			R
Block H - Typical 3 Classroom Block			
Bill No. 11			
Plastering (Provisional)			

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
Block H - Typical 3 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 H - Typical 3 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	49
2	100mm Diameter rainwater pipes	m	23
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 100mm pipe	No	4
5	Extra over rainwater pipe for bend	No	8
6	Extra over rainwater pipe for plinth bend	No	2
7	Extra over rainwater pipe for shoe	No	4
8	Extra over rainwater pipe for eaves or plinth offset	No	4

STORMWATER CHANNELS

Earthworks

9	Excavate average 125mm deep in earth to form "V" drain profile	m3	11
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Concrete, Formwork and Reinforcing

Carried to Collection

Block H - Typical 3 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

	<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>				
10	"V" drains	m3	9		
11	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	70		
12	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	74		
13	Type 193 fabric reinforcement in concrete surface beds etc	m2	70		
14	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	66		
	<u>FIRE APPLIANCES ETC</u>				
15	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2		
16	10kg Carbon dioxide fire extinguisher	No	1		
	<u>Fire hydrant pedestals</u>				
17	100mm "Storz" type fire Hydrant complete	No	3		
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>				
	<u>Sans 2-1/2 class medium steel piping black/galvanised</u>				
18	20 NB screwed socket	m	21		
19	25 NB screwed union	No	17		
20	25 NB screwed barrel nipple screwed	No	21		
21	50 NB screwed type	m	64		
22	50 NB screwed union	No	7		
23	50 NB screwed nipple	No	4		
24	50 NB galvanised SANS62 medium elbow	No	9		
	Carried to Collection			R	
	Block H - Typical 3 Classroom Block				
	Bill No. 12				
	Plumbing and Drainage (Provisional)				

Mzuvele High School
General Repairs and Renovations

25	50/25 NB Galvanised screw type reducing tee	No	8
26	Flushing of pipework and pressure testing of whole system		Item
27	Commissioning of Complete System		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
28	150 x 150mm Sign	No	11
29	Provision of fire plan in laminated A3 size	No	1
30	Emergency assembly point sign with steel pole and mass concrete base	No	1
31	Hydrant and Arrow sign (290x290mm size per sign) with steel pole and mass concrete base.	No	1

Carried to Collection

Block H - Typical 3 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Bill No. 12
Plumbing and Drainage (Provisional)
COLLECTION

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Block H - Typical 3 Classroom Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK H</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	210
Carried to Collection			R
Block H - Typical 3 Classroom Block Bill No. 13 Electrical work (Provisional)			

5	2.5mm ² 3-Core	m	70
6	16mm ² 3-Core	m	60
	<u>Cable joints</u>		
7	1.5mm ² 3-Core	No	2
8	16mm ² 3-Core	No	2
	<u>Cable terminations</u>		
9	1.5mm ² 3-Core	No	40
10	2.5mm ² 3-Core	No	40
11	16mm ² 3-Core	No	2
	<u>EARTH CONDUCTORS</u>		
	<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>		
12	6mm ²	m	60
	<u>SUNDRIES</u>		
13	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
	<u>GENERAL LIGHTING AND POWER</u>		
	<u>CONDUITS ETC</u>		
	<u>Rigid PVC conduits</u>		
14	20mm Diameter	m	280
	<u>PVC conduit accessories</u>		
15	Round outlet box for 20mm conduit	No	28
	Carried to Collection		
	Block H - Typical 3 Classroom Block Bill No. 13 Electrical work (Provisional)		

Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	28
17	Standard draw box for 20mm conduit	No	28
18	50 x 100 x 50mm Outlet box	No	28
19	100 x 100 x 50mm Outlet box	No	28
20	100 x 100 x 50mm Outlet box with blank cover plate	No	28

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

21	1.5mm ²	m	290
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DRAW-WIRES

22	Galvanised steel draw-wires drawn into conduit	m	290
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

23	Flush mounted bell push button	No	1
24	16A Flush mounted two lever one-way switch unit	No	5
25	16A Three pin flush mounted socket outlet with switch, single type	No	7

LUMINAIRES

26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	21
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SUNDRIES

27	Earthing of buildings	Item	
28	Provision of as built drawings	Item	

Carried to Collection

Block H - Typical 3 Classroom Block
Bill No. 13
Electrical work (Provisional)

R

Bill No. 13
Electrical work (Provisional)

COLLECTION

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Block H - Typical 3 Classroom Block
Bill No. 13
Electrical work (Provisional)

R

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block H - Typical 3 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	223		
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	163		
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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	36		
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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	Laminated beam	m2	18		
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5	Doors	m2	21		
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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

6	Windows	m2	65		
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7	Barglar bars	m2	65		
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Carried to Collection

Block H - Typical 3 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

ON WOOD SURFACES

Two coats oil wood primer

8	Backs of frames, linings, etc not exceeding 300mm wide	m	31
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Carried to Collection

Block H - Typical 3 Classroom Block
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

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Block H - Typical 3 Classroom Block
Bill No. 15
Paintwork (Provisional)

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Bill No	SECTION SUMMARY - Block H - Typical 3 Classroom Block	Page No	Amount
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4	Masonry (Provisional)	349	
5	Roof Coverings (Provisional)	350	
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8	Floor Coverings, Wall Linings, etc. (Provisional)	356	
9	Ironmongery (Provisional)	359	
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15	Paintwork (Provisional)	377	
Carried to Final Summary			R
Block H - Typical 3 Classroom Block			

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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 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 I - Ablution 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 I - Ablution Block
Bill No. 1
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	Steps	m3	1
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Breaking up and removing unreinforced concrete

2	100mm Thick surface beds	m2	29
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Breaking down and removing brickwork etc

3	One brick walls	m2	9
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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 ²	No	10
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5	Servicing of existing steel windows with new timber louvres, hinges, latches etc	No	8
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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	52
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

7	Double pitch timber roof structure with two gable ends, overall size 12.55 x 7.65 x 1.50m high including wall plates, bracing etc.	m2	52
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8	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	35
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9	Barge boards	m	18
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10	Fascia boards	m	11
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11	Eaves gutters	m	11
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Carried to Collection

R

Block I - Ablution Block
Bill No. 1
Alterations (Provisional)

Mzuvele High School
General Repairs and Renovations

12	Rainwater pipes	m	6
	<u>Taking out and removing ironmongery</u>		
13	Toilet paper holder from wall	No	8
	<u>Taking out/off and removing sundry metalwork</u>		
14	Steel single leaf security gate not exceeding 2,5m ²	No	2
	<u>Hacking up/off and removing tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>		
15	Ceramic wall tiles	m2	2
16	Ceramic floor tiles	m2	33
	<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	33
18	Internal plaster from walls	m2	145
	<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>		
19	PVC piping not exceeding 50mm diameter	m	45
20	PVC piping exceeding 100mm and not exceeding 200mm diameter	m	20
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
21	Vitreous china wash hand basin	No	6
22	Vitreous china WC pan with cistern and flush pipe	No	8

Carried to Collection

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Block I - Ablution Block
Bill No. 1
Alterations (Provisional)

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Bill No. 1

Alterations (Provisional)

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Block I - Ablution 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	38
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Carried to Collection

Block I - Ablution Block
Bill No. 2
Earthworks (Provisional)

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Bill No. 2

Earthworks (Provisional)

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Block I - Ablution Block
Bill No. 2
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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"			
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	5
Carried to Collection			R
Block I - Ablution 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

1

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

- 3 Surface beds, slabs, etc

m2

38

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

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

m

38

REINFORCEMENT

Fabric reinforcement

- 5 Type 193 fabric reinforcement in concrete surface beds etc

m2

38

Carried to Collection

Block I - Ablution Block

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

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

COLLECTION

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

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<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	52	
2	Ridge cappings 475mm girth	m	6	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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	52	
	Carried Forward to Summary of Section No. 10			
	Block I - Ablution Block			
	Bill No. 5			
	Roof Coverings (Provisional)			

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS</u>			
<u>CONSTRUCTION ETC</u>			
<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			
Carried to Collection			R
Block I - Ablution Block			
Bill No. 6			
Carpentry and Joinery (Provisional)			

Mzuvele 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 10525 x 1700mm high overall with 700mm eaves projection on both sides	No	5		
	<u>Sawn softwood</u>				
2	38 x 114mm Wall plates	m	10		
3	50 x 76mm Purlins	m	69		
4	38 x 114mm Bracing	m	6		
	<u>Sundries</u>				
5	Wrought faces on sawn timbers	m2	4		
6	Two coats creosote on sawn timbers	m2	4		
	<u>EAVES, VERGES, ETC</u>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
7	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	18		
8	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	11		
Carried to Collection					
Block I - Ablution Block					
Bill No. 6					
Carpentry and Joinery (Provisional)					

R

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to timber/steel frames

- 9 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

Semi-solid flush doors with commercial veneer suitable for painting

- 10 44mm Door 813 x 2032mm high

No

8

Carried to Collection

Block I - Ablution Block
Bill No. 6
Carpentry and Joinery (Provisional)

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Bill No. 6
Carpentry and Joinery (Provisional)
COLLECTION

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Block I - Ablution Block
Bill No. 6
Carpentry and Joinery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>NAILED-UP CEILINGS</u>			
<u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	35
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	1
<u>Nucornice foam plastic cornices</u>			
3	75mm Coved cornices	m	34
Carried Forward to Summary of Section No. 10			R
Block I - Ablution Block			
Bill No. 7			
Ceilings, Partitions and Access Flooring (Provisional)			

Item No	Quantity	Rate	Amount
BILL NO. 8			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
Carried to Collection			R
Block I - Ablution Block Bill No. 8 Ironmongery (Provisional)			

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	20
2	WC chrome plated indicator bolt	No	8

LOCKS

Manufactured by "Union" or other equal and approved

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	2
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LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

4	150 x 150mm Anodised aluminium plate with male symbol	No	1
5	150 x 150mm Anodised aluminium plate with female symbol	No	1

SUNDRIES

Manufactured by "Union" or other equal and approved

6	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	10
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Carried to Collection

Block I - Ablution Block
Bill No. 8
Ironmongery (Provisional)

R

Bill No. 8
Ironmongery (Provisional)
COLLECTION

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Block I - Ablution Block
Bill No. 8
Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
<u>Welded screens and gates</u>			
1	No	4	
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, etc.			
Carried Forward to Summary of Section No. 10			R
Block I - Ablution Block			
Bill No. 9			
Metalwork (Provisional)			

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Item No		Quantity	Rate	Amount
<u>BILL NO. 11</u>				
<u>TILING (PROVISIONAL)</u>				
<u>WALL TILING</u>				
<u>White glazed ceramic tiles (PC sum R140.00/m² for supply and delivery, excluding labour, waste and VAT) on brickwork including cement plaster backing</u>				
1	On walls	m2	2	
<u>FLOOR TILING</u>				
<u>Ceramic floor tiles (PC sum R140.00/m² for supply and delivery, excluding labour, waste and VAT) fixed with adhesive to bedding and flush pointed with tinted jointing compound</u>				
2	On floors and landings	m2	33	
3	70mm High cut tile skirting	m	34	
Carried Forward to Summary of Section No. 10				R
Block I - Ablution Block				
Bill No. 11				
Tiling (Provisional)				

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
Carried to Collection			
			R
Block I - Ablution 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 I - Ablution 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	11
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	4
6	Extra over rainwater pipe for shoe	No	2

Carried to Collection

Block I - Ablution 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	5		
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Concrete, Formwork and Reinforcing

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

8	"V" drains	m3	5		
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9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	38		
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10	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	42		
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11	Type 193 fabric reinforcement in concrete surface beds etc	m2	38		
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12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	34		
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SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
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14	110mm Pipes laid in and including trenches not exceeding 1m deep	m	29		
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Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings

15	110mm Bend	No	8		
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16	110mm Tee	No	1		
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17	110mm Access bend	No	7		
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18	110mm Access tee	No	1		
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Carried to Collection

Block I - Ablution Block
Bill No. 12
Plumbing and Drainage (Provisional)

R

Mzuvele High School
General Repairs and Renovations

19	110mm Rodding eye	No	2
20	110mm Straight reducer	No	8
21	22mm Socket	No	6
22	28mm Socket	No	2
23	110mm Pan connector	No	8
24	110mm PVC to vent iron connector	No	2
25	110mm Vent iron cowl	No	2
<u>SANITARY FITTINGS</u>			
<u>"Vaal" or other equal and approved</u>			
26	School type lavatory wash hand basin fixed to wall	No	6
27	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	8
<u>WASTE UNIONS ETC</u>			
<u>"Cobra Watertech" or other equal and approved</u>			
28	32mm 301 CP basin waste union	No	6
<u>TRAPS ETC</u>			
<u>UPVC</u>			
29	110mm Two way vent valve	No	4
<u>Rubber</u>			
30	50mm "P" or "S" trap	No	8
<u>TAPS, VALVES, ETC</u>			
31	PA3.522 "Masterflo" pressure control valve with vacuum breaker	No	2
32	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	15
Carried to Collection			
Block I - Ablution Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

R

Mzuvele High School
General Repairs and Renovations

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WATER SUPPLIES

Class 1 copper pipes with capillary couplings

48	22mm Pipes	m	33
49	28mm Pipes	m	58
50	32mm Pipes	m	13

Extra over Class 1 copper pipes for capillary fittings

51	22mm Fittings	No	93
52	28mm Fittings	No	21
53	32mm Fittings	No	6

Testing

54	Testing water pipe system	Item	
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Carried to Collection

Block I - Ablution Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Bill No. 12
Plumbing and Drainage (Provisional)
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Block I - Ablution Block
Bill No. 12
Plumbing and Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>ELECTRICAL WORK (PROVISIONAL)</u>			
<u>BLOCK I</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
<u>LOW TENSION DISTRIBUTION</u>			
<u>DISTRIBUTION BOARD DB</u>			
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
<u>CABLES</u>			
4	1.5mm² 3-Core	m	530
Carried to Collection			R
Block I - Ablution Block Bill No. 13 Electrical work (Provisional)			

5	2.5mm ² 3-Core	m	180	
6	16mm ² 3-Core	m	60	
	<u>Cable joints</u>			
7	1.5mm ² 3-Core	No	2	
8	16mm ² 3-Core	No	2	
	<u>Cable terminations</u>			
9	1.5mm ² 3-Core	No	40	
10	2.5mm ² 3-Core	No	40	
11	16mm ² 3-Core	No	2	
	<u>EARTH CONDUCTORS</u>			
	<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>			
12	6mm ²	m	60	
	<u>SUNDRIES</u>			
13	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	
	<u>GENERAL LIGHTING AND POWER</u>			
	<u>CONDUITS ETC</u>			
	<u>Rigid PVC conduits</u>			
14	20mm Diameter	m	710	
	<u>PVC conduit accessories</u>			
15	Round outlet box for 20mm conduit	No	71	
	Carried to Collection			R
	Block I - Ablution Block			
	Bill No. 13			
	Electrical work (Provisional)			

Mzuvele High School
General Repairs and Renovations

16	Deep type (concrete type) round outlet box for 20mm conduit	No	71		
17	Standard draw box for 20mm conduit	No	71		
18	50 x 100 x 50mm Outlet box	No	71		
19	100 x 100 x 50mm Outlet box	No	71		
20	100 x 100 x 50mm Outlet box with blank cover plate	No	71		
<u>CONDUCTORS</u>					
<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>					
21	1.5mm ²	m	290		
<u>DRAW-WIRES</u>					
22	Galvanised steel draw-wires drawn into conduit	m	290		
<u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u>					
23	Flush mounted bell push button	No	1		
24	16A Flush mounted two lever one-way switch unit	No	17		
25	16A Three pin flush mounted socket outlet with switch, single type	No	18		
<u>LUMINAIRES</u>					
26	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	53		
<u>SUNDRIES</u>					
27	Earthing of buildings		Item		
28	Provision of as built drawings		Item		
Carried to Collection				R	
Block I - Ablution Block					
Bill No. 13					
Electrical work (Provisional)					

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Bill No. 13
Electrical work (Provisional)

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Block I - Ablution Block
Bill No. 13
Electrical work (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 15</u>			
<u>PAINTWORK (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<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			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
<u>COLOURS</u>			
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			
Carried to Collection			R
Block I - Ablution 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	836		
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ON PLASTERBOARD SURFACES

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

2	Ceilings and cornices	m2	192		
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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	46		
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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	139		
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PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK

ON BAGGED BRICKWORK OR CONCRETE SURFACES

One coat alkali resistant primer and two coats PVA emulsion paint for interior use

5	Ceilings and beams	m2	192		
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Carried to Collection

Block I - Ablution Block
Bill No. 15
Paintwork (Provisional)

R

ON METAL SURFACES

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

6	Windows	m2	14
7	Handrails	m2	31

Carried to Collection

Block I - Ablution Block
Bill No. 15
Paintwork (Provisional)

R

Bill No. 15
Paintwork (Provisional)

COLLECTION

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Block I - Ablution Block
Bill No. 15
Paintwork (Provisional)

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Item No	Quantity	Rate	Amount
BILL NO. 1			
EXTERNAL WORK			
TEMPORARY PARKHOMES			
<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	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 contract period expires	No	10
2	Transport to and from site of parkhomes as per distance between supplier and site	No	10
Rates for the following Parkhomes to include standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, sanitary fittings, water supply and soil drainages piping including connections:			
3	Provide standard toilets temporary parkhomes on site for rental and maintenance during construction phase to serve as a "Boys toilets" including levelling, positioning on site and connection to an electrical supply, drainage system, water supply including issuing of compliance certificates for a period of 4 months and removal from site after contract period expires	No	1
4	Transport to and from site of parkhomes as per distance between supplier and site	No	1
5	Provide standard toilets temporary parkhomes on site for rental and maintenance during construction phase to serve as a "Girls toilets" including levelling, positioning on site and connection to an electrical supply, drainage system, water supply including issuing of compliance certificates for a period of 4 months and removal from site after contract period expires	No	1
Carried to Collection			R
External Work Bill No. 1 External Work			

6	Transport to and from site of parkhomes as per distance between supplier and site	No	1		
7	Provide standard toilets temporary parkhomes on site for rental and maintenance during construction phase to serve as a "Teachers toilets" including levelling, positioning on site and connection to an electrical supply, drainage system, water supply including issuing of compliance certificates for a period of 4 months and removal from site after contract period expires	No	1		
8	Transport to and from site of parkhomes as per distance between supplier and site	No	1		
<u>REMOVAL OF EXISTING WORK</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<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					
Carried to Collection				R	
External Work					
Bill No. 1					
External Work					

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 out and remove electrical redundant conduits, wiring, etc

9	Conduits, wiring, etc. from all existing blocks and dispose		Item	
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Taking down and removing existing fence

10	Pre-cast concrete palisade fence including pedestrians and vehicles steel gates	m	400	
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Breaking up and removing unreinforced concrete

11	100mm Thick walkway surface beds	m2	80	
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Breaking up and removing tar etc

12	Bituminous premix road surface and layer works 150mm thick	m2	1,000	
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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

13	Not exceeding 150mm deep to remove humps, form shallow ditches, etc	m2	2,200	
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Carried to Collection

External Work
Bill No. 1
External Work

R

	<u>Ground preparation</u>				
14	Cultivation and preparation of areas to be planted Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling	m2	2,200		
15	In plant beds, grassed areas and holes for trees, shrubs, etc Grassing, ground covers, etc	m3	110		
16	"Kikuyu" rolls or other similar approved 50mm thick Maintenance	m2	2,200		
17	Allow for maintaining landscaping for a period of 2 months, including watering, weeding, cutting, replacing dead plants, etc			Item	
<u>ROADWORK, PARKING AREAS AND PAVING</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
	<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>Excavation in earth not exceeding 2m deep</u>				
18	Reduced levels under floors Extra over bulk excavation in earth for excavation in	m3	430		
19	Soft rock	m3	43		
20	Hard rock Extra over all excavations for carting away	m3	22		
21	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	430		
				R	
Carried to Collection					
External Work Bill No. 1 External Work					

Mzuvele High School
General Repairs and Renovations

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	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
33	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	244		
	<u>WALKWAY</u>				
	<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>				
34	Paving to walkways	m3	12		
35	Finishing top surface of walkways smooth with a steel trowel to falls	m2	80		
36	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	163		
37	Type 193 fabric reinforcement in concrete surface beds etc	m2	80		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
38	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	160		
	<u>STORMWATER CHANNELS</u>				
	<u>Earthworks</u>				
39	Excavate average 150mm deep in earth to form "V" drain profile	m3	2		
	<u>Concrete, Formwork and Reinforcing</u>				
	<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>				
40	"V" drains	m3	2		
41	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	15		
	Carried to Collection			R	
	External Work				
	Bill No. 1				
	External Work				

42	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	32			
43	Type 193 fabric reinforcement in concrete surface beds etc	m2	15			
<u>WATER TANK & BASE SUPPORT</u>						
<u>Excavations, etc</u>						
<u>Excavation in earth not exceeding 2m deep</u>						
44	Trenches	m3	21			
	<u>Extra over trench and hole excavations in earth for excavation in</u>					
45	Soft rock	m3	2			
46	Hard rock	m3	1			
	<u>Extra over all excavations for carting away</u>					
47	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21			
	<u>Risk of collapse of excavations</u>					
48	Sides of trench and hole excavations not exceeding 1,5m deep	m2	78			
	<u>Keeping excavations free of water</u>					
49	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>					
50	Backfilling to trenches, holes, etc	m3	21			
51	Backfilling to under floors, steps, pavings, etc.	m3	20			
Carried to Collection				R		
External Work						
Bill No. 1						
External Work						

	<u>Compaction of surfaces</u>			
52	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	40	
	<u>Soil insecticide in accordance with SANS 5859</u>			
53	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	40	
	<u>Concrete, Formwork and Reinforcement</u>			
	<u>25MPa/19mm unreinforced concrete</u>			
54	Foundation beams	m3	12	
	<u>25MPa/19mm reinforced concrete</u>			
55	Surface beds	m3	20	
56	Bottom and sides of V-drains	m3	40	
57	Galvanised mild still Y10 "bar" 250mm high cast into concrete	No	40	
	<u>Test cubes</u>			
58	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
59	Surface beds, slabs, etc	m2	68	
	<u>Rough formwork (Degree of AccuracyII)</u>			
60	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	184	
	<u>Reinforcement</u>			
61	Type 193 fabric reinforcement in concrete surface beds etc	m2	160	
	Carried to Collection			
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62	Type 395 fabric reinforcement in concrete surface beds etc	m2	68		
	<u>Masonry</u>				
63	One brick wall of NFX bricks in class II mortar	m2	40		
64	Extra over brickwork for face brick "Horizon satin facebrick pointed with recessed and vertical joints"	m2	40		
65	Cement mortar surrounding 225mm x average 150mm high around water tank	m	58		
	<u>Plumbing and Drainage (Provisional)</u>				
	<u>Jo-Jo SG1 polyethylene drinking water tank with black lining internally</u>				
66	2500Litre circular tank 1,42m diameter x 1,86m high approximately 0,85m above ground level	No	10		
67	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	10		
68	Outlet union for 15mm copper pipe including hole through tank	No	10		
	<u>Load Test</u>				
69	Fill tank with drinkable water to 50% of its capacity for a period of 10 days and then inspect for cracks, depression, etc	No	10		
Carried to Collection				R	
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FENCING

Galvanised security fence including site clearance and preparation of ground

70	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	400		
71	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	400		
72	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	160		
73	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	79		
74	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		
75	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	80		

Carried to Collection

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76	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		
77	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		
<u>RENO MATRESS CONSTRUCTION</u>					
78	Construction/Installation of Reno mattress including excavation, back filing etc	m2	3		
<u>MAKING GOOD OF EXISTING WORKS</u>					
79	Jetting and flushing of all pipes and storm water drain system including manholes		Item		
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External Work					
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External Work					

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COLLECTION

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FINAL SUMMARY			Page No	Amount
1	Preliminaries	42		
2	Block A - Administration Block	87		
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4	Block C - Typical 8 Classroom Block	168		
5	Block E - Typical 6 Classroom Block	212		
6	Block E - Ablutions	253		
7	Block F - 10 Classroom Block	295		
8	Block G - Hall With Exam Classroom	336		
9	Block H - Typical 3 Classroom Block	378		
10	Block I - Ablution Block	424		
11	External Work	436		
12	Provisional Sums	437		
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	