

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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

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

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

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

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

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

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

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

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

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

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

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:

(a) in respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply;

and

(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

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

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

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

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"**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: _____

Item

OBJECTIVE AND PREPARATION

1 **A2.0 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A3.0 DOCUMENTS**

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

Fixed: _____ Value related: _____ Time related: _____

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1 **A4.0 DESIGN RESPONSIBILITY**
 Clause 4.0
 Clause 4.3 is amended by replacing it with the following:
 No clause
 Fixed: _____ Value related: _____ Time related: _____

Item

2 **A5.0 EMPLOYER'S AGENTS**
 Clause 5.0
 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents.
 Fixed: _____ Value related: _____ Time related: _____

Item

3 **A6.0 SITE REPRESENTATIVE**
 Clause 6.0
 Fixed: _____ Value related: _____ Time related: _____

Item

4 **A7.0 COMPLIANCE WITH REGULATIONS**
 Clause 7.0
 Fixed: _____ Value related: _____ Time related: _____

Item

5 **A8.0 WORKS RISK**
 Clause 8.0
 Fixed: _____ Value related: _____ Time related: _____

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1 **A9.0 INDEMNITIES**
 Clause 9.0
 Fixed: _____ Value related: _____ Time related: _____

Item

2 **A10.0 WORKS INSURANCES**
 Clause 10.0
 Clause 10.0 is amended by the addition of the following clauses:

10.5 Damage to the Works

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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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

- (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**

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- (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:

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

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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

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value related: _____ Time related: _____

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<p>1</p>	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p>		
<p>2</p>	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p>		
<p>3</p>	<p>A13.0 No clause</p>	<p>N/A</p>		
<p>4</p>	<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 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.2.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>		<p>R</p>	

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

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 **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 fourteen (14) **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

Fixed: _____ Value related: _____ Time related: _____

Item

1 **A16.0 ACCESS TO THE WORKS**

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 **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

3 **A18.0 SETTING OUT OF THE WORKS**

Clause 18.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 **A19.0 ASSIGNMENT**

Clause 19.0

Fixed: _____ Value related: _____ Time related: _____

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1 **A20.0 NOMINATED SUBCONTRACTORS**

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No clause

Note: See item B9.1 hereinafter for adjustment of attendance on **nominated subcontractors** executing work allowed for under provisional sums

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A21.0 SELECTED SUBCONTRACTORS**

Clause 21.0

Clause 21 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time related: _____

Item

3 **A22.0 EMPLOYER'S DIRECT CONTRACTORS**

Clause 22.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 **A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS**

Clause 23.0

Fixed: _____ Value related: _____ Time related: _____

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COMPLETION

1 **A24.0 PRACTICAL COMPLETION**

Clause 24.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A25.0 WORKS COMPLETION**

Clause 25.0

Fixed: _____ Value related: _____ Time related: _____

Item

3 **A26.0 FINAL COMPLETION**

Clause 26.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 **A27.0 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

Fixed: _____ Value related: _____ Time related: _____

Item

5 **A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed: _____ Value related: _____ Time related: _____

Item

6 **A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time related: _____

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1	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>PAYMENT</u></p>	Item
2	<p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p style="text-align: right;">Carried to Collection</p>	R
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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

1 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

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

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

Add the following clauses: 33.2.9 to 33.2.13:

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

Item

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1 **A34.0 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

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

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

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"

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A35.0 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: _____ Value related: _____ Time related: _____

Item

CANCELLATION

3 **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**"

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

36.3 Remove reference to “No clause”, and replace “principal agent” with “employer”

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

1 **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)"

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

37.3.5 Replace “ninety (90)” with “one hundred and twenty (120) and 38.5.4

Fixed: _____ Value related: _____ Time related: _____

Item

2 **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:

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 39.0

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

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

Fixed: _____ Value related: _____ Time related: _____

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DISPUTE

1 **A40.0 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS

2 **A41.0 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

3 **A42.0 THE SCHEDULE (C1.2)**

Clause 42.0

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

Fixed: _____ Value related: _____ Time related: _____

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

1 ***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

2 ***B2.1 Checking of documents***

Fixed: _____ Value related: _____ Time related: _____

Item

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Fixed: _____ Value related: _____ Time related: _____

Item

5 ***B2.4 Interests of agents***

Fixed: _____ Value related: _____ Time related: _____

Item

6 ***B2.5 Priced documents***

Fixed: _____ Value related: _____ Time related: _____

Item

7 ***B2.6 Tender submission***

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

Fixed: _____ Value related: _____ Time related: _____

Item

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B3.0 THE SITE

1 **B3.1 Defined works area**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

2 **B3.2 Geotechnical investigation**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

3 **B3.3 Inspection of the site**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

4 **B3.4 Existing premises occupied**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

5 **B3.5 Previous work - dimensional accuracy**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

6 **B3.6 Previous work - defects**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

7 **B3.7 Services - known**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

8 **B3.8 Services - unknown**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

9 **B3.9 Protection of trees**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

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1 **B3.10 Articles of value**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

2 **B3.11 Inspection of adjoining properties**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

B4.0 MANAGEMENT OF CONTRACT

3 **B4.1 Management of the works**
 Fixed: _____ Value related: _____ Time
 related: R _____

Item

4 **B4.2 Programme for the works**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

5 **B4.3 Progress meetings**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

6 **B4.4 Technical meetings**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

7 **B4.5 Labour and plant records**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

**B5.0 SAMPLES, SHOP DRAWINGS AND
 MANUFACTURERS' INSTRUCTIONS**

8 **B5.1 Samples of materials**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

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1	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item
2	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item
3	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item
<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
4	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item
5	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item
6	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item
7	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item
8	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item
9	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item

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B7.0 TEMPORARY SERVICES

1 **B7.1 Location**

Fixed: _____ Value related: _____ Time related: _____

Item

2 **B7.2 Water**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **B7.3 Electricity**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **B7.4 Telecommunication facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **B7.5 Ablution facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

B8.0 PRIME COST AMOUNTS

6 **B8.1 Responsibility for prime cost amounts**

Fixed: _____ Value related: _____ Time related: _____

Item

B9.0 ATTENDANCE ON N/S SUBCONTRACTORS

7 **B9.1 General attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

8 **B9.2 Special attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

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1 **B9.3 Commissioning - fuel, water and electricity**
 Fixed: _____ Value related: _____ Time related: _____

Item

B10.0 FINANCIAL ASPECTS

2 **B10.1 Statutory taxes, duties and levies**
 Fixed: _____ Value related: _____ Time related: _____

Item

3 **B10.2 Payment for preliminaries**
 Fixed: _____ Value related: _____ Time related: _____

Item

4 **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

5 **B10.4 Payment certificate cash flow**
 Fixed: _____ Value related: _____ Time related: _____

Item

B11.0 GENERAL

6 **B11.1 Protection of the works**
 Fixed: _____ Value related: _____ Time related: _____

Item

7 **B11.2 Protection / isolation of existing / sectionally occupied works**
 Fixed: _____ Value related: _____ Time related: _____

Item

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1	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item
2	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item
3	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item
4	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item
5	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item
6	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item
7	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item
8	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item
9	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item

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1 **B11.12 Tenant installations**
 Fixed: _____ Value related: _____ Time related: _____

Item

B12.0 SCHEDULE OF VARIABLES

2 **B12.1 Schedule of variables**
 Fixed: _____ Value related: _____ Time related: _____

Item

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

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

12.1 PRE-TENDER INFORMATION

12.1.1 **Provisional bills of quantities**
 [2.2] The quantities are provisional

YES

12.1.2 **Availability of construction documentation**
 [2.3] *Construction documentation is complete*

YES

12.1.3 **Interests of agents**
 [2.4] Details:

12.1.4 **Defined works area**
 [3.1] Details:

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12.1.5 **Geotechnical investigation**

[3.2] Details:

12.1.6 **Existing premises occupied**

[3.4] Specific requirements:

12.1.7 **Previous work - dimensional accuracy**

[3.5] Details:

12.1.8 **Previous work - defects**

[3.6] Details:

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*

Specific requirements: **NO**

12.1.16 **Water**

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

NO

Option B (by **employer** - free of charge)

NO

Option C (by **employer** - metered)

YES

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12.1.17 **Electricity**

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

NO

Option B (by **employer** - free of charge)

NO

Option C (by **employer** - metered)

YES

12.1.18 **Telecommunications**

[7.4] Telephone

YES

Facsimile

YES

E-mail

YES

12.1.19 **Ablution facilities**

[7.5] Option A (by **contractor**)

YES

Option B (by **employer**)

NO

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

[11.2] Protection is required

NO

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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**

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)

NO

Option B (calculated)

YES

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12.2.2 **Adjustment of preliminaries**
 [10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES

12.2.3 **Additional agreed preliminaries items**
 Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 **C1.0 CONTRACT DRAWINGS**

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 **C2.0 GENERAL PREAMBLES**

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

Fixed: _____ Value related: _____
Time related: _____

Item

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1 **C3.0 TRADE NAMES**

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 **C4.0 HIV/AIDS AWARENESS**

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

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

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C4.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.4 ACCESS TO CONDOMS

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

Fixed: _____ Value related: _____

Time related: _____

Item

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C4.5 MONITORING

Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value related: _____
 Time related: _____

Item

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Item No	Quantity	Rate	Amount
<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY REQUIREMENTS</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan.	Item	
2	Submission of the Health and Safety File.	Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item	
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Section No. 1 Bill No. 2 HEALTH AND SAFETY MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

1	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item		
2	Provision of full time Health and Safety Officer for the entire construction period.		Item		
3	Induction training of personnel.	No			
4	Provision of first aid boxes.	No			
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>					
5	Reflective vests.	No			
6	Hard hats.	No			
7	Protective foot wear.	No			
8	Ear Plugs.	No			
9	Dust Masks.	No			
<u>Costs of Medical Certificates and Medical Surveillance:</u>					
10	Initial (baseline) medical examinations.	No			
11	Exit Examinations.	No			
<u>Noise Monitoring:</u>					
12	Establishment of noise zones.	No			
13	Audiograms.	No			
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HEALTH AND SAFETY

**MGUDLWA SENIOR SECONDARY SCHOOL
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Item No	<u>SECTION No. 2 - BUILDING WORKS</u>	Quantity	Rate	Amount
	<u>BILL No. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC.</u>			
	Note:			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>DEMOLITIONS</u>			
	<u>Specialist work on asbestos products</u>			
	<u>The following items, to be taken down and carted away, are to be carried out by a Registered Asbestos Contractor and hazardous waste disposal expert, registered on the Department of Labour database. The Contractor is to allow for in his rates for all necessary health and safety clothing, equipment, etc. to carry out the works in compliance with all current legislation in this regard.</u>			
1	Take off from roof timbers, "Span 3" corrugated asbestos roof sheeting including accessories and set aside for carting away (elsewhere) (measured flat on plan).	m2	441	
2	Take down asbestos bargeboard set aside for carting away (elsewhere).	m	21	
3	Take down asbestos fasciboard and set aside for carting away (elsewhere).	m	83	
4	Allow for the removal from site and disposal of the above set aside asbestos containing materials at an approved asbestos dumping site, to be located by the Contractor, by an approved hazardous waste disposal expert all in accordance with the latest legislation.			
		Item		
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	Section No. 2 Bill No. 1 ALTERATIONS MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

Ordinary demolitions

Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor.

ROOF COVERINGS, ETC.

1	Take down and cart away galvanised IBR profile roof covering fixed to steel or timber.	m2	890
2	Take down and cart away galvanised steel ridge capping.	m	89

CARPENTRY AND JOINERY

Roof structures

3	Demolish and cart away timber purlin.	m	776
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Skirting

4	Take down and cart away timber skirting.	m	338
---	--	---	-----

Timber doors and frames

5	Take out from one brick wall and cart away single timber door and frame size 900mm wide x 2100mm high including preparing reveals to receive new frame (elsewhere).	No	12
---	---	----	----

Externally

6	Take down and cart away 20 x 220mm timber/fibre cement fascia board.	m	88
7	Take down and cart away 20 x 220mm timber/fibre cement bargeboard.	m	41

CEILINGS AND PARTITIONS

Internally

8	Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, bandering, supporting structures, etc.	m2	672
9	Take down and cart away gypsum coved cornice.	m	20

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ALTERATIONS

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

FLOOR COVERINGS

1	Strip from concrete floors vinyl floor tiling and cart away including preparing screed for new floor covering (elsewhere).	m2	672
---	--	----	-----

IRONMONGERY

General ironmongery

2	Take out from steel door and cart away, cylinder or mortice lockset.	No	1
---	--	----	---

3	Take off from steel door and cart away, lever furniture set.	No	1
---	--	----	---

Pinning Boards

4	Take down and cart away felt backing pinning boards, size approximately 5000 x 1500mm high including filling holes with cement mortar.	No	21
---	--	----	----

Chalk Boards

5	Take down and cart away chalk boards, size approximately 4800 x 1200mm high including filling holes with cement mortar.	No	10
---	---	----	----

Lockers

6	Take down and cart away double door steel stationery cupboard, size approximately 900 x 450 x 1800mm high including filling holes with cement mortar.	No	11
---	---	----	----

METALWORK

Panels and gates

7	Take out from concrete brickwork and cart away galvanised gate, size overall 1000 x 2150mm high, comprising galvanised steel perimeter framing filled with horizontal round bar including unbolting and removing hinge bracket assemblies.	No	4
---	--	----	---

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ALTERATIONS

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Windows and burglar screens

1	Take out from steel perimeter framing and cart away, glazed steel window size 1000 x 900mm high.	No	2
2	Take out from steel perimeter framing and cart away, glazed steel window size 1500 x 900mm high.	No	3

PLUMBING AND DRAINAGE

Externally

3	Take down and cart away Upvc half round gutter including accessories.	m	105
4	Take down and cart away Upvc downpipes including accessories.	m	36

TILING

Floors

5	Hack up ceramic floor tiling and cart away including preparing surface to receive new tiling (elsewhere).	m2	85
---	---	----	----

PLASTERING

Walls

6	Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere).	m2	249
7	Hack off plaster from brick wall reveals and cart away including preparing to receive new plaster (elsewhere).	m2	16

GLAZING

8	Take out 4mm thick glass from galvanised steel window including preparing frame to receive new glass (elsewhere).	m2	50
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REFURBISHMENT, PREPARATORY WORKS, ETC.

Carried to Collection

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Section No. 2
 Bill No. 1
 ALTERATIONS
MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES

Sundry brickwork refurbishment

1	Replace broken brick in existing face brick wall with matching brick bedded, jointed and pointed in cement mortar to match existing.	No	25
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General repair work

2	Hack plaster from brickwork for a width of 100mm either side of crack, nail galvanised stretch plate over crack with steel nails at 200mm centres to receive plaster (elsewhere).	m	85
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CARPENTRY AND JOINERY

Servicing of windows, doors, etc.

3	Service and adjust existing internal single timber door, including oiling and easing hinges, preparing to receive new lock, touching up and making good.	No	1
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METAL WORK

Servicing of windows, doors, etc.

4	Service window, size approximately 1000 x 1000mm high with one centre pivot opening light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	30
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5	Service window, size approximately 1000 x 1500mm high with one centre pivot opening light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	46
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Servicing of steel doors, frames, etc.

6	Service and adjust existing single steel gate size 900 x 2100mm high, including oiling and easing hinges, secure hinges to wall, touching up and making good.	No	1
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Refurbishment by cleaning

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Bill No. 1

ALTERATIONS

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

1	<p><u>Walls, concrete columns, tiling, etc.</u></p> <p>High pressure clean external face brick facade to remove dirt, lichen, moss, etc. complete including recess pointing and jointing in cement mortar, where necessary, to match existing.</p>	m2	506		
Carried to Collection					R
<p>Section No. 2 Bill No. 1 ALTERATIONS MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>					

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Bill No. 1

ALTERATIONS

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Section No. 2

Bill No. 1

ALTERATIONS

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	BILL No. 2	Quantity	Rate	Amount
	<u>MASONRY</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>BRICKWORK (Labour intensive)</u>			
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Walls and linings in stock bricks in 5:1 cement mortar :</u>			
1	One brick wall.	m2	5	
	<u>Reinforcement to brickwork</u>			
2	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	15	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 Bill No. 2 MASONRY MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			R

Item No	<u>BILL No. 3</u>	Quantity	Rate	Amount
	<u>WATERPROOFING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>LIQUID WATERPROOFING (Labour intensive)</u>			
	<u>Two coats "ABE Brickseal"</u>			
1	Vertically on bagged surface of brickwork.	m2	589	
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Sundry elements</u>			
2	Seal and point around metal window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	350	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 3 WATERPROOFING MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

Item No	BILL No. 4	Quantity	Rate	Amount
	<u>ROOF COVERINGS</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>EXISTING ROOF COVERINGS</u>			
	<u>Roof coverings</u>			
1	The Contractor is to allow hereunder for the thorough inspection of the insitu corrugated iron roof coverings, ridge cappings, accessories, etc. to ensure water tightness and complete integrity thereof including for replacement of missing drive screws, etc.	m2	90	
	<u>PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.</u>			
	<u>Metal roof sheeting</u>			
	<u>0,58mm Thick corrugated "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "kalahari red" finish to external face and standard backing coat to internal face :</u>			
2	Roof sheeting laid in patches to a pitch not exceeding 25° and secured to timber purlins at approximately 1 200mm centres including turning up sheet at ridge and turning down sheet at eaves.	m2	890	
	<u>Accessories</u>			
	<u>Accessories, etc. to match roof sheeting</u>			
3	Ridge capping 550mm girth.	m	89	
4	Broad flute serrated closer including polyclosers.	m	178	
	Carried to Collection			R
	Section No. 2 Bill No. 4 ROOF COVERINGS, ETC. MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

1	Ridge finial.	No	4	
<u>Insulation</u>				
2	"Sisalation 420" insulation laid taut over rafters at approximately 2400mm centres and fixed including galvanised steel straining wires where required.	m2	882	
Carried to Collection				
Section No. 2 Bill No. 4 ROOF COVERINGS, ETC. MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				
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Bill No. 4

ROOF COVERINGS, ETC.

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Bill No. 4

ROOF COVERINGS, ETC.

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>BILL No. 5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>CARPENTRY</u>			
	<u>Purlins, bracing, etc.</u>			
	<u>Wrot softwood :</u>			
1	38 x 114mm Rafters.	m	5	
2	50 x 76mm Purlins.	m	776	
3	38 x 38 x 152mm Long cleat spiked to rafter foot.	No	100	
4	50 x 76 x 500mm Long sprocket spiked to timber purlin.	No	50	
	<u>Sundries:</u>			
5	Hurricane clip fixed to purlin and rafter.	No	600	
	<u>JOINERY</u>			
	<u>Skirtings</u>			
6	Check timber skirting, realign where necessary and ensure skirting is securely nailed to the wall.	m	54	
7	16 x 76mm Wrought meranti hollow-backed skirting plugged to wall, with 19mm matching quadrant bead at junction with floor.	m	338	
	<u>Doors, windows, sashes, etc.</u>			
	Carried to Collection			R
	Section No. 2			
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	CARPENTRY AND JOINERY			
	MGUDLWA SENIOR SECONDARY SCHOOL			
	PROVISIONAL BILLS OF QUANTITIES			

	<u>Wrot hardwood :</u>			
1	44mm Thick framed, ledged, braced and battened door size 813 x 2032mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.	No	12	
	<u>Frames, rails, skirtings, etc.</u>			
	<u>Meranti timber door frames</u>			
	<u>Note :</u>			
	All units are to constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face			
2	Framed frame, to suit single door size 813 x 2032mm high overall.	No	12	
	<u>Sundries</u>			
3	10 x 140mm Door frame anchor countersunk and pelleted in timber frame, at approximately 600mm centres, including forming mortice in brickwork or concrete.	No	96	
	<u>Plastic, fibre cement, etc.</u>			
	<u>Work to existing fascia/barge boards</u>			
4	Check fibre cement fascia boards complete, including joining strips, for alignment/rigidity and where necessary replace missing screws or joining strips to existing members to leave fascia boards secure to rafters.	m	21	
	<u>Pressed fibre-cement:</u>			
5	12 x 228mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	172	
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	CARPENTRY AND JOINERY			
	MGUDLWA SENIOR SECONDARY SCHOOL			
	PROVISIONAL BILLS OF QUANTITIES			

1 80 x 275mm Barge board drilled and brass screwed to timber purlins including galvanised steel H-profile jointing strips, etc.

m

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 Bill No. 5
 CARPENTRY AND JOINERY
MGUDLWA SENIOR SECONDARY SCHOOL
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Bill No. 5

CARPENTRY AND JOINERY

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Bill No. 5

CARPENTRY AND JOINERY

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 6</u>	Quantity	Rate	Amount
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>INTERNAL NAILED UP CEILINGS</u>			
	<u>Work to existing ceilings</u>			
1	Check fibreceement ceiling complete, including cover strips, for alignment/rigidity and where necessary re-nail ceiling or cover strips to existing members to leave ceiling level and secure.	m2	93	
	<u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti coverstrips over joints:</u>			
2	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	672	
	<u>Trap doors</u>			
3	Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	4	
	<u>Cornices</u>			
	<u>Work to existing cornices</u>			
4	Check gypsum plasterboard cornice, realign where necessary and ensure cornice is securely nailed to brandering or wall.	m	53	
	Carried to Collection			R
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	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	MGUDLWA SENIOR SECONDARY SCHOOL			
	PROVISIONAL BILLS OF QUANTITIES			

1	<p><u>Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:</u></p> <p>75mm Coved cornice.</p>	m	348		
<p style="text-align: center;">Carried to Collection</p>					R
<p>Section No. 2 Bill No. 6 CEILINGS, PARTITIONS AND ACCESS FLOORING MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>					

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Bill No. 6

CEILINGS, PARTITIONS AND ACCESS FLOORING

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Bill No. 6

CEILINGS, PARTITIONS AND ACCESS FLOORING

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 7</u>	Quantity	Rate	Amount
	<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>FLOOR COVERINGS</u>			
	<u>Vinyl floor coverings</u>			
	<u>300 x 300 x 2.5mm Semi-flexible reinforced vinyl quartz floor tiles</u>			
1	Sealed to prepared floors with adhesive in patches to match existing tiles.	m2	672	
	<u>Polish, sealers, etc.</u>			
	<u>Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer</u>			
2	On vinyl sheet flooring.	m2	672	
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	Section No. 2 Bill No. 7 FLOOR COVERINGS, WALL LININGS, ETC. MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

Item No	<u>BILL No. 8</u>	Quantity	Rate	Amount
	<u>IRONMONGERY</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>IRONMONGERY TO TIMBER</u>			
	<u>Hinges, bolts, etc.</u>			
1	102 x 75 x 3mm Stainless steel two ball bearing butt hinge.	No	36	
	<u>Hooks</u>			
2	150mm Brass cabin hook and eye screwed to and including 69 x 69 x 32mm chamfered hardwood block plugged to wall.	No	12	
	<u>Door stops</u>			
3	Black rubber door stop plugged to wall or floor.	No	13	
	<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
4	"Union Gower CZ682-24-61SC" or other equal approved satin chrome finish four lever lockset complete with chromium plated lever furniture.	No	13	
5	"CISA" or other approved 50mm brass padlock with stainless steel shackle.	No	2	
	<u>IRONMONGERY TO METALWORK</u>			
	<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
6	38mm Heavy duty brass padlock with stainless steel shackle.	No	12	
	Carried to Collection			R
	Section No. 2 Bill No. 8 IRONMONGERY MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

<u>Sundries</u>					
1	50mm Plastic key tag.	No	13		
<u>PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.</u>					
<u>Lockers</u>					
2	Powder coated "Grey" steel standard two-door stationary cupboard, size 900mm wide x 450mm deep x 1800mm high, provided complete with four shelves, chromium plated locking mechanism, four times bolted to brickwork with and including 10 x 85mm long masonry anchors.	No	11		
<u>Writing boards</u>					
3	"Parrot Products" Educational board with deluxe aluminium perimeter frame, size overall 4890 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, size 2420 x 1230mm high, two outer fixed leaves, each size 1220 x 1230mm high, two double sided swing leaf panels fitted with heavy duty plastic hinges, each leaf size 1210 x 1230mm high, mounted to wall with and including proprietary wall fixings.	No	10		
<u>Information notice boards</u>					
4	"Parrot Products BD 0476" Information board with felt backing and aluminium perimeter frame, size 2400 x 1200mm high, concealed mounted to wall with proprietary wall fixings.	No	42		
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IRONMONGERY

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IRONMONGERY

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	BILL No. 9	Quantity	Rate	Amount
	<p><u>METALWORK</u></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><u>STEEL</u></p> <p><u>GATES</u></p> <p><u>Hot dipped galvanised mild steel</u></p>			
1	<p>Single gate, size 1000mm wide x 2032mm high, the leaf formed of 40 x 40 x 2.5mm wall thickness mild steel pipe framing all round with mitred and welded angles, the gate filled in with 10 x 10mm mild steel bars welded, at each end, diagonally at 45 degrees to perimeter framing at not exceeding 100mm centres, the leaf fitted with lock housing (lock elsewhere measured) formed of 2.5mm thick mild steel flat plate, including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws.</p>	No	12	
	<p><u>Windows, etc.</u></p> <p><u>Hot dipped galvanised steel residential NC type windows provided complete with concealed friction stays, standard brass catches, pegs and slides and fitted with integral burglar proofing</u></p>			
2	Window type NC2, size 1022 x 949mm high.	No	2	
3	Window type NC4, size 1511 x 654mm high.	No	3	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 9 METALWORK MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>			R

Item No	BILL No. 10	Quantity	Rate	Amount
	<u>PLASTERING</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>SCREEDS</u>			
	<u>GRANOLITHIC</u>			
	<u>1:3 Cement screeds and paving</u>			
1	25mm Thick screed in patching to floors.	m2	364	
	<u>PLASTER</u>			
	<u>One coat internal 1:4 cement plaster on :</u>			
2	Brick wall in narrow widths not exceeding 300mm wide.	m2	25	
3	Walls in patching.	m2	213	
	<u>One coat external 1:5 cement plaster on :</u>			
4	Brick wall in narrow widths not exceeding 300mm wide.	m2	25	
5	Walls in patching.	m2	54	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 Bill No. 10 PLASTERING MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			R

Item No	BILL No. 11	Quantity	Rate	Amount
	<p><u>TILING</u></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><u>INTERNAL FLOOR TILING</u></p> <p><u>Ceramic tiles, size 300 x 300mm (P.C. Amount R150.00/m2) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:</u></p>			
1	On floors.	m2	85	
	Carried Forward to Summary of Section No. 2			R
	<p>Section No. 2 Bill No. 11 TILING MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>			

Item No	<u>BILL No. 12</u>	Quantity	Rate	Amount
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>GUTTERS, ETC</u>			
	<u>Roof gutters, rainwater pipes, etc.</u>			
	<u>White uPVC guttering, downpipes and accessories</u>			
1	125mm Half round eaves gutters fixed to fascia at maximum 600mm centres with and including proprietary fixings.	m	189	
2	Extra over eaves gutter for stopped end.	No	12	
3	Extra over eaves gutter for outlet for 80mm diameter downpipe.	No	12	
4	80mm Diameter rainwater pipes in continuous lengths fixed to walls with and including proprietary holderbats.	m	48	
5	Extra over rainwater pipe for bend.	No	24	
	<u>Fire fighting equipment</u>			
	<u>Portable fire extinguishers:</u>			
6	4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall.	No	7	
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	Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

Item No	BILL No. 13	Quantity	Rate	Amount
	<p><u>GLAZING</u></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><u>GLAZING</u></p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6,38mm Thick normal strength clear laminated safety glass:</u></p>			
1	In panes exceeding 0,1m2 and not exceeding 0,5m2 in area.	m2	50	
	<p><u>Sundries</u></p>			
2	Rake out putty from galvanised steel window frame and replace with new.	m	152	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 13 GLAZING MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>			R

Item No	BILL No. 14	Quantity	Rate	Amount
	<u>PAINTWORK</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>REDECORATION OF EXISTING</u>			
	<u>PREVIOUSLY PAINTED CONCRETE, PLASTER, ETC</u>			
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats exterior acrylic emulsion sheen paint on:</u>			
1	External plastered walls.	m2	360	
2	External smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	40	
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior washable acrylic washable emulsion sheen paint on:</u>			
3	Internal plastered walls.	m2	1,143	
4	Internal smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	51	
	<u>Prepare and apply, on previously high pressure cleaned surface, two coats quality granolithic floor paint on:</u>			
5	Floors.	m2	132	
6	Walls.	m2	90	
7	Stairs and ramps.	m2	10	
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	Section No. 2 Bill No. 14 PAINTWORK MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

PREVIOUSLY PAINTED GYPSUM PLASTERBOARD

Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior acrylic emulsion sheen paint on:

1	Internal ceiling boarding.	m2	98	
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PREVIOUSLY PAINTED FIBRE CEMENT

Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional exterior super matt paint on:

2	External cill not exceeding 300mm girth.	m	76	
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Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional interior super matt paint on:

3	Internal cill not exceeding 300mm girth.	m	76	
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Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional exterior super matt paint on:

4	Fascias and barge boards.	m2	6	
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PREVIOUSLY PAINTED METALWORK

Scrape down loose or peeling paint, remove all traces of rust, clean off surface contaminants with a sugar soap solution, allow to dry and apply galvanised iron primer (where necessary) and two coats super universal enamel paint on:

5	Steel windows with burglar bars (both sides measured).	m2	198	
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6	IBR corrugated steel roof sheeting.	m2	90	
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 Bill No. 14
 PAINTWORK

**MGUDLWA SENIOR SECONDARY SCHOOL
 PROVISIONAL BILLS OF QUANTITIES**

	<u>Scrape down loose or peeling paint, remove all traces of rust, clean off surface contaminants with a sugar soap solution, allow to dry and apply galvanised iron primer (where necessary) and two coats super universal enamel paint on:</u>				
1	Steel tubular support columns.	m2	27		
	<u>PREVIOUSLY PAINTED TIMBER</u>				
	<u>Sand down painted surface to bare timber and apply one coat exterior primer, one coat undercoat and two coats flat enamel paint on:</u>				
2	General surfaces of timber rafters, beams, etc.	m2	54		
3	General surfaces of roof timbers not exceeding 300mm girth.	m	260		
	<u>Sand down varnished surface to bare timber and apply one coat exterior primer, one coat undercoat and two coats flat enamel paint on:</u>				
4	Surfaces of framed ledged and braced batten doors.	m2	4		
5	Frames and linings.	m2	1		
	<u>Sand down varnished surface to bare timber and apply two coats interior quality clear matt varnish on:</u>				
6	Skirtings not exceeding 300mm girth.	m	54		
	<u>NEW WORKS</u>				
	<u>PAINT ON TIMBER</u>				
	<u>Prime or oil</u>				
7	Backs of frames or linings not exceeding 300mm girth.	m	60		
	<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>				
8	Surfaces of framed, ledged and braced batten doors.	m2	48		
9	Frames and linings.	m2	16		
	Carried to Collection				
	Section No. 2				
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	PAINTWORK				
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Bill No. 14

PAINTWORK

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Bill No. 14

PAINTWORK

**MGUDLWA SENIOR SECONDARY SCHOOL
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SECTION SUMMARY - SECTION NO.2 - EXISTING BUILDINGS

Bill No		Page No	Amount
1	ALTERATIONS	50	
2	MASONRY	51	
3	WATERPROOFING	52	
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5	CARPENTRY AND JOINERY	59	
6	CEILINGS, PARTITIONS AND ACCESS FLOORING	62	
7	FLOOR COVERINGS, WALL LININGS, ETC.	63	
8	IRONMONGERY	66	
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Item No	Quantity	Rate	Amount
<u>SECTION No. 3 - PREFABRICATED BUILDINGS</u>			
<u>BILL No. 1</u>			
<u>PLATFORM CONSTRUCTION (ALL TRADES) PROVISIONAL</u>			
Note:			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>EXCAVATIONS, FILLING, ETC.</u>			
<u>Classification of material to be excavated</u>			
Detailed geotechnical data sheets for the area of the works have been included at the back of these Bills of Quantities for the Contractor's information.			
<u>EXCAVATIONS FOR FOUNDATIONS, ETC.</u>			
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Reduced levels under solid floors.	m3	56
2	Ground beams.	m3	9
<u>Carting away of excavated material</u>			
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	65
<u>Risk of collapse of excavations</u>			
4	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	58
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Section No. 3 Bill No. 1 PLATFORM CONSTRUCTION MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

<u>Keeping excavations free of water</u>				
1	Allow for keeping the excavations free from water.		Item	
<u>Filling</u>				
2	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors.	m3	93	
3	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc.	m3	19	
<u>Compaction of surfaces</u>				
4	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	372	
<u>Weedkillers, insecticides, etc.</u>				
<u>Soil insecticide in accordance with SANS 5859</u>				
5	Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming.	m2	474	
<u>Tests</u>				
6	Allow for Mod AASHTO density tests on filling.	No	5.00	
<u>CONCRETE</u>				
<u>Mass concrete 10MPa (19mm stone) in:</u>				
7	Blinding beneath bases, strip footings, etc cast against excavated surfaces.	m3	2	
<u>Reinforced concrete 30MPa (19mm stone) in:</u>				
8	Rafter slabs cast against excavated surfaces.	m3	59	
<u>Surface treatment</u>				
9	Powerfloating of concrete surface bed.	m2	372	
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Section No. 3 Bill No. 1 PLATFORM CONSTRUCTION MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

Test blocks and testing

1	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	5
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Movement joints

2	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces.	m	50
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FORMWORK

Rough formwork (use and waste) to concrete to:

Edges, risers, ends and reveals

3	Edge, riser, etc not exceeding 300mm high.	m	146
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REINFORCEMENT (PROVISIONAL)

Bar reinforcement

Mild steel rod reinforcement to structural concrete work

4	10mm Diameter bars.	t	0.262
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High tensile rod reinforcement to structural concrete work

5	10mm Diameter bars.	t	0.262
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6	12mm Diameter bars.	t	0.262
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7	16mm Diameter bars.	t	0.262
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Welded mesh reinforcement

High tensile welded steel mesh reinforcement :

8	Ref: 395 cast into concrete surfaces.	m2	372
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MGUDLWA SENIOR SECONDARY SCHOOL
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SHEET OR MEMBRANE WATERPROOFING

Sheet or membrane waterproofing to floors

250 Micron "Gunplas USB" green polyethylene sheeting

⋮

1	Laid flat on prepared sand bed under solid floor.	m2	410	
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WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.

Joint sealants

To horizontal concrete surfaces

2	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer.	m	50	
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STEEL

Tubular columns

3	101.6mm Diameter x 3.0mm wall thickness hot dipped galvanised steel column, 2700mm long, with 200 x 200 x 6mm base plate welded on to one end and other end having U-shaped bracket, 460mm girth x 250mm long x 3mm plate thickness, eight times holed for bolts, welded on including setting up in position and embedding in concrete	No	7	
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 PLATFORM CONSTRUCTION
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Bill No. 1

PLATFORM CONSTRUCTION

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Bill No. 1

PLATFORM CONSTRUCTION

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	Quantity	Rate	Amount
<p><u>BILL No. 2</u></p>			
<p><u>5 CLASSROOM BLOCK</u></p>			
<p><u>Note:</u></p>			
<p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p>			
<p><u>Construction Notes:</u></p>			
<p>All construction materials are to be SABS or AGREEMENT South Africa Certified'.</p>			
<p>Prefabricated systems are to be presented to the Principal Agent for approval before construction commences.</p>			
<p>Concrete strip footings and slab to be constructed by the main contractor.</p>			
<p>Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint.</p>			
<p>The chassis is to fixed to the slab with 6mm x 50mm long masonry anchors at 500mm centers and including non-shrink grout</p>			
<p>Carried to Collection</p>			
<p>Section No. 3 Bill No. 2 5 CLASSROOM BLOCK MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>		R	

External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centers through both panels. (See attached drawing 501- Roof/Wall Assembly Vertical Sections)

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc. (See attached drawing 500- corner detail- horizontal section)

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

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 5 CLASSROOM BLOCK
MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES

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External door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

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 5 CLASSROOM BLOCK
MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES

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Roof structure to be a minimum of 11 degree pitch with a overhang of 300mm on one side and 1500mm the other side over verandah.

The roof is to consist of all necessary lattice ridge beams fixed to gable walls with 4 x 10 x 60mm galvanised bolts, washers and nuts on each side. See attached drawing : (505 - Roof panels to lattice beam detail.)

The roof is to consist of all required beams, supports, etc fixed to columns (elsewhere) for the overhang sections at the entrances and verandah areas of the building

The roof covering composite panel to consist of 0.6mm galvanised pre painted IBR chromadek external surface, 50mm expanded polystyrene core and 0.5mm chromadek plain white sheet soffit.

External and internal 1.2mm galvanised ridge plates to be placed on the surfaces where the roof panels join including fixing to the panel with 4.8 x 18mm sealed rivets fixed at 400mm centres on both sides and fixed to ridge beam with 4 x 8 x 125mm posidrive screws per a panel.

Roof covering to include all ridge flashing, 1.2mm apex splines, closure flashing, powder coated eave cappings, drip flashing and narrow and broad flute closures with polybuttons to be formed from 0.58mm Chromadek including rivets, bolts and drywall screws, etc. (See attached drawing 500- corner detail- horizontal section & 501 Roof/ Wall Assembly Vertical Section)

10 x 75 x 225mm Upvc Bargeboard drilled and fixed to composite panel at verges with 75mm hex posidriver screws at 600mm centres including galvanised steel H-profile jointing strips, etc.

85 x 125mm Powder coated seamless aluminium gutter fixed to proprietary fascia at maximum 600mm centres with and including proprietary fixings.

Four x 75 x 100mm x 2700mm long Powder coated seamless aluminium downpipes fixed to composite panels with and including proprietary holder bat and accessories.

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5 CLASSROOM BLOCK

MGUDLWA SENIOR SECONDARY SCHOOL

PROVISIONAL BILLS OF QUANTITIES

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Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.(See attached drawing 502- Internal Wall Base Detail)

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centres through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets,sealant, etc.

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5 CLASSROOM BLOCK

MGUDLWA SENIOR SECONDARY SCHOOL

PROVISIONAL BILLS OF QUANTITIES

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Floor finishes to following areas :

1.Classroom 1 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

2.Classroom 2 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

3.Classroom 3 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

4.Classroom 4 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

5.Classroom 5 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

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5 CLASSROOM BLOCK

MGUDLWA SENIOR SECONDARY SCHOOL

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All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and air conditioner isolators. All lights, plugs, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

One double tube fluorescent light per 7m2 floor area.

SHOP DETAILS

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

- 1 The Contractor is to allow hereunder for any costs incurred for the preparation and/or approval of shop drawings for the "5 Classroom block "prefabricated building for the contract.

Prefabricated Units

Note: The contractor it to take note of all the items above when pricing the prefabricated structure.

The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.

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5 CLASSROOM BLOCK

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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1	<p>Supply, transport and erect of 5 Classroom block size 42740 x 8500mm consisting of the following :</p> <p>1.Classroom 1 (59.5m2) 2.Classroom 2 (59.5m2) 3.Classroom 3 (59.5m2) 4.Classroom 4 (59.5m2) 5.Classroom 5 (59.5m2) 6.Enclosed Verandah (64.11m2)</p>	No	1		
<u>JOINERY</u>					
<u>Bench seats</u>					
<u>Wrought hardwood</u>					
2	<p>32 x 69mm Twice chamfered seating slat countersunk bolted to steel framing (elsewhere) with and including stainless steel round headed bolts and nuts.</p>	m	36		
<u>Galvanised mild steel</u>					
3	<p>40 x 40 x 3mm Square tubular, four times welded, bracket three times bolted to wall and floor with and including M10 x 100mm long masonry anchors. (Weight of each bracket = 4.60kg)</p>	No	9		
<u>PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.</u>					
<u>Lockers</u>					
4	<p>Powder coated "Grey" steel standard two-door stationary cupboard, size 900mm wide x 450mm deep x 1800mm high, provided complete with four shelves, chromium plated locking mechanism, four times bolted to brickwork with and including 10 x 85mm long masonry anchors.</p>	No	5		
<u>Writing boards</u>					
5	<p>Educational board with deluxe aluminium perimeter frame, size overall 4000 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, mounted to wall with and including proprietary wall fixings.</p>	No	5		
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<p>Section No. 3 Bill No. 2 5 CLASSROOM BLOCK MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES</p>					R

	<u>Pinning boards</u>			
1	Standard wall mounted educational range pin board, size 2400 x 1200mm, with "(Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions.	No	10	
	<u>SIGNAGE</u>			
	<u>3mm Thick x 40mm high bevelled edge polished aluminium plate signs with 20mm high black engraved numerals or letters, countersunk tap screwed to timber door</u>			
2	Sign with two numerals enscribed.	No	5	
	<u>3mm Thick bevelled edge polished aluminium indicator plate signs with black engraved numerals or letters, countersunk tap screwed to wall.</u>			
3	150 x 150 x 3mm Black engraved bevelled edge aluminum fire extinguisher sign indicator plate fixed to wall.	No	3	
	<u>SCREEDS</u>			
	<u>3:1 Cement screeds :</u>			
4	30mm Thick screed to floors and landings.	m2	300	
	<u>FIRE SERVICES</u>			
	<u>Portable fire extinguishers:</u>			
5	4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall.	No	3	
	<u>PAINT ON TIMBER</u>			
	<u>Prepare and apply three coats interior quality clear polyurethane varnish on :</u>			
6	Surfaces of hardwood slatted shelving or bench seating.	m2	7	
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	Section No. 3 Bill No. 2 5 CLASSROOM BLOCK MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

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5 CLASSROOM BLOCK

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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2	5 CLASSROOM BLOCK	92	
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	<u>SECTION NO.4 - CONVENTIONAL STRUCTURE</u>			
	<u>BILL No. 1</u>			
	<u>KITCHEN UNIT (ALL TRADES)</u>			
	Note:			
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).			
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>Excavations</u>			
	<u>EXCAVATIONS FOR FOUNDATIONS, ETC. (Labour intensive)</u>			
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Reduced levels under solid floors.	m3	11	
2	Surface trenches.	m3	26	
3	Column bases.	m3	4	
	<u>Excavations in earth of more difficult character</u>			
4	Extra over excavations in earth for excavation in soft rock.	m3	2	
5	Extra over excavations in earth for excavation in hard rock.	m3	1	
	<u>Carting away of excavated material</u>			
6	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24	
	Carried to Collection			R
	Section No. 4			
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	CONVENTIONAL KITCHEN UNIT			
	MGUDLWA SENIOR SECONDARY SCHOOL			
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<u>Risk of collapse of excavations</u>				
1	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	90	
<u>Keeping excavations free of water</u>				
2	Allow for keeping the excavations free from water.		Item	
<u>Filling</u>				
3	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	17	
<u>Foundation courses</u>				
4	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors.	m3	6	
5	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors.	m3	6	
6	25mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc.	m3	1	
<u>Compaction of surfaces</u>				
7	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	37	
<u>Weedkillers, insecticides, etc.</u>				
<u>Soil insecticide in accordance with SANS 5859</u>				
8	Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming.	m2	37	
9	To bottoms and sides of trenches.	m2	114	
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CONVENTIONAL KITCHEN UNIT				
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<u>Tests</u>					
1	Allow for Mod AASHTO density tests on filling.	No	3.00		
<u>CONCRETE (Labour intensive)</u>					
<u>Mass concrete 10MPa (19mm stone) in:</u>					
2	Blinding beneath bases, strip footings, etc cast against excavated surfaces.	m3	1		
<u>Reinforced concrete 25MPa (19mm stone) in:</u>					
3	Strip foundations cast against excavated surfaces.	m3	5		
4	Column bases cast against excavated surfaces.	m3	1		
5	Surface beds cast in panels including temporary formwork.	m3	4		
6	Worktop in small quantities.	m3	0.1		
<u>Surface treatment</u>					
7	Float surface of concrete to a wood float finish.	m2	20		
8	Powerfloating of concrete surface bed.	m2	17		
<u>Test blocks and testing</u>					
9	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	5		
<u>FORMWORK (Labour intensive)</u>					
<u>Rough formwork (use and waste) to concrete to:</u>					
<u>Formwork to slabs, beams and stairs</u>					
10	Soffits of slabs not exceeding 1.5m above bearing level.	m2	1		
<u>Edges, risers, ends and reveals</u>					
11	Edge, riser, etc not exceeding 300mm high.	m	4		
Carried to Collection					
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<u>Movement joints</u>					
1	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces.	m	10		
2	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer.	m	10		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Bar reinforcement</u>					
<u>Mild steel rod reinforcement to structural concrete work</u>					
3	10mm Diameter bars.	t	0.113		
<u>High tensile rod reinforcement to structural concrete work</u>					
4	10mm Diameter bars.	t	0.141		
5	12mm Diameter bars.	t	0.141		
6	16mm Diameter bars.	t	0.169		
<u>Welded mesh reinforcement</u>					
<u>High tensile welded steel mesh reinforcement :</u>					
7	Ref: 193 cast into concrete surfaces.	m2	20		
8	Ref: 395 cast into concrete surfaces.	m2	17		
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FOUNDATION BRICKWORK (PROVISIONAL)

Walls and linings in stock bricks in 5:1 cement mortar :

1	Half brick wall.	m2	6
2	One brick wall.	m2	29

Movement joints

3	13mm Thick expanded polyethylene joint forming material not exceeding 300mm wide built vertically between concrete and brickwork or brickwork surfaces.	m	24
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Reinforcement to brickwork

4	Galvanised brick reinforcement 75mm wide built horizontally into brickwork.	m	69
5	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	344

FACE BRICKWORK

Allow the Prime Cost of R5 750,00 (Five Thousand Seven Hundred and Fifty Rand) per thousand for face bricks delivered and off loaded to site, pointed with 10mm square vertical and horizontal joints

6	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	8
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SUPERSTRUCTURE BRICKWORK

Walls and linings in stock bricks in 5:1 cement mortar :

7	Half brick wall.	m2	14
8	One brick wall.	m2	67

Beamfilling

9	Half brick wall in beamfilling.	m2	2
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<u>Reinforcement to brickwork</u>				
1	Galvanised brick reinforcement 75mm wide built horizontally into brickwork.	m	49	
2	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	198	
<u>Fabricated lintols</u>				
<u>Precast pre-stressed reinforced concrete lintols</u>				
3	75 x 110mm Lintol not exceeding 3m long, built at both ends into brickwork over opening.	m	14	
<u>EXTERNAL FACE BRICKWORK</u>				
<u>Allow the Prime Cost of R5 750,00 (Five Thousand Seven Hundred and Fifty Rand) per thousand for face bricks delivered and off loaded to site, pointed with 10mm square vertical and horizontal joints</u>				
4	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	45	
<u>Walls faced both sides</u>				
<u>Allow the Prime Cost of R5 750,00 (Five Thousand Seven Hundred and Fifty Rand) per thousand for face bricks delivered and off loaded to site, pointed with 10mm square vertical and horizontal joints</u>				
5	Half brick wall faced both sides.	m2	1	
<u>Face brick bands</u>				
6	Extra over ordinary brickwork for horizontal projecting band, one course high, set 15mm out from adjacent brickwork.	m	10	
<u>Face brick copings, lintols, cills, etc.</u>				
7	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	8	
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MISCELLANEOUS

Quarry tiles, cement tiles, fibre-cement, etc.

Natural grey fibre-cement cills

1	15mm x 150mm Wide cill set flat and slightly projecting.	m	4
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Hoop iron ties, cramps, etc.

2	1.6 x 30mm Galvanized hoop iron roof tie 1100mm long with one end wrapped around and spiked to timber the other end built a minimum of six courses deep into brickwork as the work proceeds.	No	10
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Air bricks, etc.

3	230 x 160 x 35mm Terracotta vermin proof air brick.	No	6
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4	230 x 160 x 35mm Cement vermin proof air brick.	No	6
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DAMP-PROOF COURSE

375 Micron polyethylene damp-proof sheeting :

5	Laid in walls.	m2	8
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SHEET OR MEMBRANE WATERPROOFING (Labour intensive)

Sheet or membrane waterproofing to floors

250 Micron "Gunplas USB" green polyethylene sheeting :

6	Laid flat on prepared sand bed under solid floor.	m2	41
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Sundry elements

7	Seal and point around aluminium window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	17
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8	Seal and point around metal door frames with an approved acrylic sealant.	m	10
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PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.

Metal roof sheeting

0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Colomet" finish to external face and standard backing coat to internal face

1	Roof sheeting laid to a pitch not exceeding 25° and secured to timber purlins at approximately 1 200mm centres including turning up sheet at ridge and turning down sheet at eaves.	m2	36
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Accessories

Accessories, etc. to match roof sheeting

2	Narrow flute serrated closer including polyclosers.	m	10
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Insulation

3	"Sisalation 420" insulation laid taut over rafters at approximately 2400mm centres and fixed including galvanised steel straining wires where required.	m2	19
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CARPENTRY

PLATE NAILED TIMBER ROOF CONSTRUCTION

Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.

Prices must include for all cross and windbracing according to the manufacturer's instruction.

Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.

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Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:

- (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.
- (b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.
- (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.
- (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

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The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Seperate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Fixing:

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.

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Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Erection certificates

1	Contractor is to supply a roof truss erection certificate for each of the buildings stating that the erection and installation of the roof trusses has been inspected and approved by a professional registered structural engineer.	No	1
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Plate nailed timber roof trusses

2	Mono pitch prefabricated roof truss to 10 degree pitch with an overall length of 7200mm, a span between wall plates of 3940mm and 2500mm overhang on one side and 300mm overhang on the other side.	No	5
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Purlins, bracing, etc.

Sawn softwood :

3	38 x 114mm Wall plate wired down (wire ties elsewhere).	m	9
4	50 x 76mm Purlins.	m	30
5	38 x 38 x 152mm Long cleat spiked to rafter foot.	No	10
6	50 x 76 x 300mm Long sprocket spiked to timber purlin.	No	22

Wrot softwood :

7	38 x 114mm Rafters.	m	5
8	50 x 76mm Purlins.	m	25
9	75 x 100mm Splayed tilting fillet.	m	10

Sundries:

10	Hurricane clip fixed to purlin and rafter.	No	55
11	End of rafter wrought for a length of 320mm.	No	5
12	End of rafter wrought for a length of 2500mm.	No	5

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JOINERY

Doors, windows, sashes, etc.

Solid core flush panel doors :

1 40mm Solid core flush door, size 813 x 2032mm high, with commercial grade veneer both sides and concealed edge strips.

No 1

Wrot hardwood :

2 44mm Thick framed, ledged, braced and battened door size 813 x 2032mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.

No 1

Frames, rails, skirtings, etc.

Skirtings

3 19 x 76mm Wrought meranti hollow-backed skirting plugged to wall, with 19mm matching quadrant bead at junction with floor.

m 24

Shelves, fittings, etc.

Shelving

4 16mm Thick laminated wrot SA pine in sides, divisions and shelves.

m2 8

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Fittings

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured, and must be installed by a firm of specialists. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc.

The references given in the descriptions are to the respective types of fittings detailed on the Architect's drawings which are annexed at the end of these Bills of Quantities for tender purposes

1	Kitchen floor cupboard unit, 2240mm long x 600mm wide, including doors, divisions, shelves, forming holes in top for sanitary fittings, etc.	No	1
2	L Shape kitchen floor cupboard unit, 1740mm long x 600mm wide, including doors, divisions, shelves, forming holes in top for sanitary fittings, etc.	No	1
3	Kitchen floor cupboard unit, 2540mm long x 600mm wide, including doors, divisions, shelves, forming hole in top for sanitary fitting, etc. all as per drawing no. 152-03, Plan, Section and Elevation (Sink, taps, piping, etc. elsewhere measured).	No	1

Plastic, fibre cement, etc.

Pressed fibre-cement:

4	12 x 228mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	10
5	80 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc.	m	14

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HORIZONTAL NAILED UP CEILINGS

4mm Thick fibre-cement boards with and including H-section galvanised steel coverstrips over joints:

1	Ceilings including 38 x 50mm sawn softwood bandering at 450mm centres with cross bandering at joints, ends of sheets and at light fittings, etc.	m2	16
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Sundries

2	Extra for 38 x 50mm brander fixed at perimeter of ceiling.	m	24
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Trap doors

3	Extra over gypsum plasterboard ceiling for forming trap door size 630 x 630mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	1
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Cornices

Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:

4	75mm Coved cornice.	m	25
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Insulation

Non-combustible fibreglass insulation blanket

5	50mm Thick laid loose over ceiling between truss members.	m2	16
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FLOOR COVERINGS

Vinyl floor coverings

300 x 300 x 2.5mm Semi-flexible reinforced vinyl quartz floor tiles

6	Sealed to prepared floors with adhesive in patterns.	m2	16
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Edge and cover strips

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1	<p>457mm Wide shelf bracket slotted into wall band. (elsewhere)</p> <p><u>STEEL</u></p> <p><u>Stairs, balustrading, cat ladders, grilles, gates, framework, etc.</u></p> <p><u>GATES</u></p> <p><u>Hot dipped galvanised mild steel</u></p>	No	42	
2	<p>Single gate, size 925mm wide x 1880mm high, the leaf formed of 50 x 50 x 3mm wall thickness mild steel pipe framing all round with mitred and welded angles, the gate filled in with 10 x 10mm mild steel bars welded, at each end, diagonally at 45 degrees to perimeter framing at not exceeding 100mm centres, the leaf fitted with two 50 x 10mm flat bar tee bracket and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws, the strike and locking flange formed of 50 x 10mm flat bar tee bracket twice bolted to wall with and including M16 x 95mm galvanised coach screws, the gate provided with and including 38mm cast brass padlock with stainless steel shank.</p> <p><u>Tubular columns</u></p>	No	2	
3	<p>101.6mm Diameter x 3.0mm wall thickness hot dipped galvanised steel column, 2700mm long, with 200 x 200 x 6mm base plate welded on to one end and other end having U-shaped bracket, 460mm girth x 250mm long x 3mm plate thickness, eight times holed for bolts, welded on including setting up in position and embedding in concrete</p> <p><u>Door frames</u></p> <p><u>Hot dipped galvanised pressed steel door frames for half brick wall fitted complete with three 100mm butt hinges and chromium plated striking plate</u></p>	No	3	
4	<p>1,6mm Thick double rebate profile frame for single door, size 813 x 2032mm high.</p>	No	1	
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	<p><u>Hot dipped galvanised pressed steel door frames for one brick wall fitted complete with three 100mm butt hinges and chromium plated striking plate</u></p>				
1	<p>1,6mm Thick double rebate profile frame for single door, size 813 x 2032mm high.</p>	No	1		
	<p><u>Sundries to door frames :</u></p>				
2	<p>Prepare steel door frame to receive spring catch and/or dead bolt of mortice lock.</p>	No	2		
	<p><u>Roller shutter doors</u></p>				
	<p><u>"Finestra" Galvanised powder coated finish roller shutter doors with hood fixed to precast concrete beam</u></p>				
3	<p>Chain operated slatted roller shutter door to suit clear opening size 1900mm wide x 1100mm high fitted with proprietary guides, hood, aluminium bottom rail with rubber gasket, etc. and 2 No. sliding lock bolts.</p>	No	1		
	<p><u>ALUMINIUM WINDOWS, DOORS, ETC.</u></p>				
	<p>All aluminium windows and doors are to be manufactured from "Wispeco Aluminium Systems" or other equal approved sections and profiles.</p>				
	<p>All aluminium windows and doors are to be manufactured in strict accordance with the latest AAAMSA specifications by a registered Member of the Association.</p>				
	<p>All units are to be pre-glazed in strict accordance with the latest requirements of SAGGA and National Building Regulations.</p>				
	<p>All units are to be supplied with a protective plastic covering, which is to be removed only once all adjacent plastering and painting is complete.</p>				
	<p>Sashes are to be hung on and including 2 No. stainless steel hinges with 2 No. friction stays and are to be fitted with standard epoxy-coated pull locking handle.</p>				
	<p>All units are to be pre-glazed in accordance with the requirements of the National Building Regulations, unless otherwise specifically noted</p>				
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All laminated safety glass panes are to bear the safety glass indicator mark, failing which they will be rejected and the Contractor will have to replace same at his own cost.

Powder coated, colour : Anthracite Grey, aluminium windows, doors, sidelights, etc :

Pre-glazed aluminium windows (Wispeco 25) complete with integral ironmongery and standard 12 x 12mm powder coated burglar bars to internal face of opening sections including setting up, building in, filling back of frame with cement mortar, sealing around frame internally with silicone sealant, etc.

1	Single pane top hung opening out window, size 600 x 600mm high, glazed with and including 6.38mm clear laminated safety glass.	No	2
2	Window in three equal lights (one fixed and two top hung opening out), size overall 900 x 1000mm high, lights glazed with and including 6.38mm clear laminated safety glass.	No	1

SCREEDS

3:1 Cement screeds :

3	30mm Thick screed to floors and landings.	m2	16
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PLASTER

One coat external 1:5 cement plaster on :

4	Brick wall.	m2	39
5	Brick wall in narrow widths not exceeding 300mm wide.	m2	1

One coat internal 1:4 cement plaster on :

6	Brick wall.	m2	48
7	Brick wall in narrow widths not exceeding 300mm wide.	m2	1

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GUTTERS, ETC

Roof gutters, rainwater pipes, etc.

White uPVC guttering, downpipes and accessories

1	125mm Half round eaves gutters fixed to fascia at maximum 600mm centres with and including proprietary fixings.	m	10
2	Extra over eaves gutter for stopped end.	No	2
3	Extra over eaves gutter for outlet for 80mm diameter downpipe.	No	1
4	80mm Diameter rainwater pipes in continuous lengths fixed to timber gumpoles with and including proprietary holderbats.	m	3
5	Extra over rainwater pipe for bend.	No	2

PIPEWORK, ETC.

Pipes, pipe fittings, etc.

WATER SUPPLIES

Class 2 copper pipes with straight compression fittings

6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	3
7	22mm Ditto.	m	2
8	28mm Ditto.	m	1
9	15mm Pipe chased into brickwork.	m	4
10	22mm Ditto.	m	3
<u>Extra over copper pipes for brass compression fittings</u>			
11	15mm Fittings.	No	4
12	22mm Fittings.	No	4

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SANITARY FITTINGS, TANKS, GEYSERS, ETC.

Sanitary fittings, etc.

Grade 430 stainless steel ware :

1	"Vulcan 3044430" or other equal approved stainless steel double centre bowl pot sink, size overall 2250 x 650 x 910mm high, complete with 150mm high splashback to rear and stainless steel legs with adjustable foot pieces.	No	1
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Sanitary fitting sundries

2	19mm Diameter chromium plated rail 600mm long, complete with two matching end socket collars plugged to wall.	No	1
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Taps, valves, etc.

Solid cast brass taps, valves, etc.

3	15mm Brass stoptap.	No	1
4	22mm Brass stoptap.	No	1
5	15mm Chromium plated wall mounted sink mixer with "Capstan" handles, overarm aerated swivel outlet and concealed connections.	No	1

Waste unions, traps, etc.

Outlets, traps, etc :

6	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	2
7	38mm PVC Sink double trap.	No	1

Fire fighting equipment

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	<u>Portable fire extinguishers:</u>			
1	4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall.	No	2	
	<u>PAINTWORK</u>			
	<u>PAINT ON PLASTER</u>			
	<u>Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on :</u>			
2	Internal smooth plastered walls.	m2	48	
	<u>Prime nail heads and H-section jointing strips and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>			
3	Internal gypsum board ceilings.	m2	16	
	<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>			
4	External smooth plastered walls.	m2	40	
	<u>PAINT ON TIMBER</u>			
	<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>			
5	Surfaces of flush panel doors.	m2	4	
	<u>Prepare and apply one coat pink wood primer, one undercoat and two coats polyurethane enamel on :</u>			
6	General surfaces of roof timbers.	m2	10	
7	General surfaces of roof timbers not exceeding 300mm girth.	m	25	
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PROVISIONAL SUMS

ELECTRICAL INSTALLATION

1	Provided the Provisional sum of R 30 000.00 (Thirty Thousand Rand) for the installation of new electrical services and refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item	30,000.00
2	Add for profit on the above, if desired.	Item	
3	Allow for attendance on the above, if desired.	Item	

MECHANICAL INSTALLATION

4	Provide the Provisional Sum of R 10 000.00 (Ten Thousand Rand) for the supply, delivery and installation of fridge freezer combination unit.	Item	10,000.00
5	Add for profit on the above, if desired.	Item	
6	Allow for attendance upon the specialist installation subcontractor.	Item	

GAS INSTALLATION

7	Provide the Provisional Sum of R 50 000.00 (Fifty Thousand Rand) for the supply, delivery and installation of gas piping reticulation complete including pipework, gas burner stoves, valves, bottles, cages, etc. to be undertaken by a specialist firm.	Item	50,000.00
8	Add for profit on the above, if desired.	Item	
9	Allow for attendance upon the specialist installation subcontractor.	Item	

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	<u>BILL No. 1</u>			
	<u>BULK EARTHWORKS</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>DEMOLITIONS AND SITE CLEARANCE</u>			
	<u>Demolitions</u>			
	<u>Brickwork building structures</u>			
1	Demolish and cart away single storey block, size on plan 65m2 on plan x approximately 3m high, comprised of sheet metal and fibre-cement roof covering on double pitch timber rafters, brickwork and mortar internal and external walls with timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	1	
2	Demolish and cart away single storey block, size on plan 100m2 on plan x approximately 3m high, comprised of sheet metal and fibre-cement roof covering on double pitch timber rafters, brickwork and mortar internal and external walls with timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	1	
3	Demolish and cart away single storey block, size on plan 200m2 on plan x approximately 3m high, comprised of sheet metal and fibre-cement roof covering on double pitch timber rafters, brickwork and mortar internal and external walls with timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	1	
	Carried to Collection			R
	Section No. 5 Bill No. 1 BULK EARTHWORKS MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

<u>Iron building structures</u>				
1	Demolish and cart away corrugated iron structure complete, size 40m2 on plan, including concrete surface bed, walls, and roof structure.	No	1	
<u>Tank stands</u>				
2	Demolish and cart away 5000 litre water storage tank including brick tank stand, comprised of plastered and painted brick walls and reinforced concrete slab including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	3	
<u>Fencing</u>				
3	Take down and cart away stock fencing, 1800mm high, including excavating out timber intermediate, corner or straining posts, at approximately 3000mm centres, backfilling of holes, etc.	m	850	
<u>Site clearance</u>				
4	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	372	
5	Strip topsoil, average 150mm thick, including depositing in stockpiles on site for later re-use.	m2	372	
<u>EXCAVATIONS, FILLING, ETC.</u>				
<u>OPEN FACE EXCAVATIONS</u>				
6	Open face excavation in earth in cutting and levelling of site.	m3	112	
<u>Excavations in earth of more difficult character</u>				
7	Extra over excavations in earth for excavation in soft rock.	m3	11	
<u>Carting away of excavated material</u>				
8	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	112	
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BULK EARTHWORKS				
MGUDLWA SENIOR SECONDARY SCHOOL				
PROVISIONAL BILLS OF QUANTITIES				

Filling

1	G5 Material, selected and supplied by the contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density over site.	m3	56
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Compaction of surfaces

2	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	372
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Tests

3	Allow for Mod AASHTO density tests on filling.	No	2.00
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 Bill No. 1
 BULK EARTHWORKS
MGUDLWA SENIOR SECONDARY SCHOOL
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Bill No. 1

BULK EARTHWORKS

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Bill No. 1

BULK EARTHWORKS

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 2</u>	Quantity	Rate	Amount
	<u>SOIL DRAINAGE</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>Class 34 Rigid uPVC socketed soil piping (SABS 791) with bedding and filling in accordance with SABS 1200 LB</u>			
1	110mm Pipe fixed vertically in ramp (no excavation).	m	10	
2	110mm Pipe and excavation not exceeding 1000mm deep.	m	50	
	<u>Extra over uPVC pipes for fittings</u>			
3	110mm 90 Degree bend.	No	4	
	Carried to Collection			R
	Section No. 5 Bill No. 2 SOIL DRAINAGE (PROVISIONAL) MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

Soakage pits, french drains, etc. (Labour intensive)

Excavations

Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away

1	Surface trenches.	m3	9	
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Excavations in earth of more difficult character

2	Extra over excavations in earth for excavation in soft rock.	m3	1	
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3	Extra over excavations in earth for excavation in hard rock.	m3	1	
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Carting away of excavated material

4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	6	
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Risk of collapse of excavations

5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	21	
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Keeping excavations free of water

6	Allow for keeping the excavations free from water.		Item	
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Filling

7	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	3	
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8	19mm Uniformly graded and washed concrete stone laid loose on filter fabric (elsewhere).	m3	6	
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Filter fabric

9	Grade 3 needle punched non-woven synthetic fibre filter fabric laid in bottom of chamber.	m2	33	
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Section No. 5
 Bill No. 2
 SOIL DRAINAGE (PROVISIONAL)
MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES

<u>Pipes, pipe fittings, etc.</u>				
	<u>UTL420 PVC Perforated slotted heavy duty pipe</u>			
1	110mm Diameter pipe laid in trench (elsewhere).	m	6	
<u>THE FOLLOWING IN SEPTIC TANKS (Labour intensive)</u>				
<u>Excavations</u>				
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
2	Holes.	m3	23	
<u>Excavations in earth of more difficult character</u>				
3	Extra over excavations in earth for excavation in soft rock.	m3	2	
4	Extra over excavations in earth for excavation in hard rock.	m3	1	
<u>Carting away of excavated material</u>				
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	16	
<u>Risk of collapse of excavations</u>				
6	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc.	m2	30	
<u>Keeping excavations free of water</u>				
7	Allow for keeping the excavations free from water.		Item	
<u>Filling</u>				
8	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	2	
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SOIL DRAINAGE (PROVISIONAL)				
MGUDLWA SENIOR SECONDARY SCHOOL				
PROVISIONAL BILLS OF QUANTITIES				

REINFORCEMENT (PROVISIONAL)

High tensile welded steel mesh reinforcement :

1	Ref: 395 cast into concrete surfaces.	m2	19
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Inspection chambers, catch pits, etc.

Cast iron covers and frames

2	450 x 600mm x 72kg Type 8A coated cast iron double seal manhole cover and frame, including bedding and grouting frame on concrete, locking bar and padlock.	No	1
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Black PVC duct pipe in single lengths :

3	150mm Diameter vent pipe.	m	1
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Extra over PVC duct pipe for fittings :

4	150mm Plain bend.	No	1
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Septic tanks:

5	6000 Litre polyethylene rotomoulded horizontal septic waste storage tank provided complete with lid, overflow outlet fitted with suitable adaptor, inlet fitted with suitable adapter and setting in position underground (elsewhere measured).	No	1
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6	Hole through top of tank lid for 150mm diameter pipe.	No	1
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Testing

7	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.		Item
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Section No. 5
 Bill No. 2
 SOIL DRAINAGE (PROVISIONAL)
MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES

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Bill No. 2

SOIL DRAINAGE (PROVISIONAL)

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Bill No. 2

SOIL DRAINAGE (PROVISIONAL)

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 3</u>	Quantity	Rate	Amount
	<u>STORMWATER DRAINAGE (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>			
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Surface trenches.	m3	48	
2	Reduced levels under solid floors.	m3	4	
	<u>Carting away of excavated material</u>			
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24	
	<u>Risk of collapse of excavations</u>			
4	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	141	
	<u>Keeping excavations free of water</u>			
5	Allow for keeping the excavations free from water.		Item	
	<u>Filling, layerworks, etc.</u>			
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, underfloors, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	40	
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	Section No. 5 Bill No. 3 STORMWATER DRAINAGE MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

1	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	8		
	<u>Compaction of surfaces</u>				
2	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	24		
	<u>Tests</u>				
3	Allow for Mod AASHTO density tests on filling.	No	4.00		
	<u>Reinforced concrete 25MPa in:</u>				
4	Strip foundations cast against excavated surfaces.	m3	4		
5	Surface beds cast in panels including temporary formwork.	m3	4		
	<u>Sundries</u>				
6	Float surface of concrete to a wood float finish.	m2	40		
	<u>Rough formwork (use and waste) to concrete to:</u>				
7	Edge, riser, etc not exceeding 300mm high.	m	72		
	<u>High tensile welded steel mesh reinforcement :</u>				
8	Ref: 193 cast into concrete surfaces.	m2	40		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
9	One brick wall.	m2	32		
10	One brick wall in foundations. (Provisional)	m2	48		
	<u>Brickwork sundries :</u>				
11	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	240		
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Section No. 5 Bill No. 3 STORMWATER DRAINAGE MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES					

<u>Ties, cramps, etc.</u>				
1	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut.	No	8	
2	38 x 1,6mm Galvanised hoop iron tie down, 1200mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	32	
<u>250 Micron "Gunplas USB" green polyethylene sheeting</u>				
:				
3	Laid flat under solid floor and over walls.	m2	40	
<u>One coat external 1:5 cement plaster on :</u>				
4	Brick wall.	m2	72	
<u>Rainwater tanks:</u>				
5	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid, overflow outlet and "ASIDI" emblem, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)	No	6	
6	Hole through top of tank lid for 100mm diameter pipe.	No	6	
<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>				
7	External smooth plastered walls.	m2	72	
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Section No. 5 Bill No. 3 STORMWATER DRAINAGE MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				R

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Bill No. 3

STORMWATER DRAINAGE

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Bill No. 3

STORMWATER DRAINAGE

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 4</u>	Quantity	Rate	Amount
	<u>WATER SUPPLY</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>ALTERATIONS TO EXISTING</u>			
1	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1	
2	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>Class 12 HDPE pressure water supply pipe including short lengths and cutting and Class C bedding cradle</u>			
3	25mm Pipe and laying in ground not exceeding 1000mm deep.	m	50	
4	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	70	
	<u>Extra over HDPE pipes for the following fittings</u>			
5	25mm Fittings.	No	20	
6	40mm Bend.	No	5	
7	40mm Tee.	No	3	
8	40 x 40 x 25mm Reducing tee.	No	2	
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	Section No. 5 Bill No. 4 WATER SUPPLIES MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

<u>Excavations in earth of more difficult character</u>					
1	Extra over excavations in earth for excavation in soft rock.	m3	5		
2	Extra over excavations in earth for excavation in hard rock.	m3	3		
<u>Sundries</u>					
3	Extra over all excavations for pipe trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	8		
4	Imported Sabunga filling as backfill to pipe trenches and compact to 93% modified AASHTO.	m3	8		
<u>Water supply valve or meter chambers</u>					
5	Excavate for and build meter chamber size 380 x 670 x 305mm deep overall formed of precast concrete heavy duty meter box (ELM) and lid including filling in and ramming.	No	4		
<u>Connections</u>					
<u>Connection of new to existing pipes</u>					
6	Connection of 25mm diameter HDPE to 22mm diameter copper pipes including all necessary reducers, saddles, etc.	No	4		
<u>Taps, valves, etc.</u>					
7	40mm Brass gate valve.	No	4		
<u>Testing</u>					
8	Allow for testing the water supply installation in accordance with the National Building Regulations.			Item	
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WATER SUPPLIES					
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Bill No. 4

WATER SUPPLIES

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Bill No. 4

WATER SUPPLIES

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No	<u>BILL No. 5</u>	Quantity	Rate	Amount
	<u>ROADWORK, PAVED AREAS, ETC.</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>THE FOLLOWING IN WALKWAYS , APRONS, RAMPS, STAIRS, ETC.</u>			
	<u>EARTHWORKS</u>			
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Reduced levels between buildings.	m3	42	
	<u>Carting away of excavated material</u>			
2	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	42	
	<u>Risk of collapse of excavations</u>			
3	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	42	
	<u>Keeping excavations free of water</u>			
4	Allow for keeping the excavations free from water.		Item	
	<u>Filling</u>			
5	150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs.	m3	42	
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	Section No. 5			
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	ROADS, PAVING, ETC.			
	MGUDLWA SENIOR SECONDARY SCHOOL			
	PROVISIONAL BILLS OF QUANTITIES			

REINFORCEMENT

Reinforcement

1	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	270	
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SHEET OR MEMBRANE WATERPROOFING (Labour intensive)

250 Micron "Gunplas USB" green polyethylene sheeting
:

2	Laid flat under aprons.	m2	180	
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 ROADS, PAVING, ETC.
**MGUDLWA SENIOR SECONDARY SCHOOL
 PROVISIONAL BILLS OF QUANTITIES**

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ROADS, PAVING, ETC.

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Bill No. 5

ROADS, PAVING, ETC.

**MGUDLWA SENIOR SECONDARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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Item No	Quantity	Rate	Amount
<u>SECTION NO.6 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
<u>BILL NO.1</u>			
<u>PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
Note:			
For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).			
<u>PROVISIONAL SUM</u>			
<u>JOINERY FITTINGS</u>			
1	Item		30,000.00
Provided the Provisional sum of R 30 000.00 (Thirty Thousand Rand) for the replacement of existing joinery fittings.			
2	Item		
Add for profit on the above, if desired.			
3	Item		
Allow for attendance on the above, if desired.			
<u>ELECTRICAL INSTALLATION</u>			
4	Item		200,000.00
Provided the Provisional sum of R 200 000.00 (Two Hundred Thousand Rand) for the installation of the new and refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.			
5	Item		
Add for profit on the above, if desired.			
6	Item		
Allow for attendance on the above, if desired.			
<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
7	Item		45,000.00
Provide the sum of R 45 000.00 (Forty Five Thousand Hundred Rand) for the employment of a CLO.(R 7 500.00 per month x contract period allowance)			
Carried to Collection			R
Section No. 6 Bill No. 1 PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

1	Add for profit on the above if required.	Item	
	<u>PERIMETER FENCING</u>		
2	Provisional sum of R 1 700 000.00 (One Million Seven Hundred Thousand Rand) for the supply and installation of the perimeter fencing to the site as per architects specifications by specialist contractor.	Item	1,700,000.00
3	Add for profit on the above.	Item	
4	Allow for attendance upon the specialist installation subcontractor.	Item	
	<u>BUDGETARY ALLOWANCE</u>		
	<u>REPAIRS TO EXISTING VIP TOILETS</u>		
5	Allow the Budgetary Allowance of R 60 000.00 (Sixty Thousand Rand) for the minor repairs to newly built VIP toilets, to be detailed at a later stage.	Item	60,000.00
	<u>SIGNAGE</u>		
6	Allow the Budgetary Allowance of R 5 000.00 (Five Thousand Rand) for the replacing of the main building signage.	Item	5,000.00
	<u>ROOF TRUSS STRENGTHENING</u>		
7	Allow the Budgetary Allowance of R 15 000.00 (Fifteen Thousand Rand) for the additional bracing, sizing of members, etc. to the timber roof structure to the existing buildings to repair any damaged members to the roof trusses.	Item	15,000.00
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			R
Section No. 6 Bill No. 1 PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

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PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ECT.

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Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

MGUDLWA SENIOR SECONDARY SCHOOL

PROVISIONAL BILLS OF QUANTITIES

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	Sub - Total		R
	<u>CONTINGENCY PROVISIONS</u>		
	Allow the Budgetary Provision of R 200 000.00 (Two Hundred Thousand Rand) for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.	Item	200,000.00
	Sub - Total		R
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R
	Sub - Total		R
	Carried to Form of Tender		R
	MGUDLWA SENIOR SECONDARY SCHOOL PROVISIONAL BILLS OF QUANTITIES		