

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>			
Carried to Collection			R
<p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>			

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:

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

R

"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:

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

"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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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: _____

Item

Carried to Collection

R

Section No. 1
 Bill No. 1
 PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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**

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

- (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

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

R

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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

1	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
3	<p>A13.0 No clause</p>	N/A	
4	<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; margin-right: 50px;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>		R

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:

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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; margin-right: 100px;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>	R

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

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

1	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CANCELLATION</u></p>	Item	
3	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p style="text-align: right; margin-right: 100px;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>		R

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: _____

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: _____

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:

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

Item

Item

R

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: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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: _____

Item

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

1	<p>B3.10 Articles of value</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>B3.11 Inspection of adjoining properties</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><u>B4.0 MANAGEMENT OF CONTRACT</u></p>			
3	<p>B4.1 Management of the works</p> <p>Fixed: _____ Value related: _____ Time related: R _____</p>	Item	
4	<p>B4.2 Programme for the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
5	<p>B4.3 Progress meetings</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
6	<p>B4.4 Technical meetings</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
7	<p>B4.5 Labour and plant records</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></p>			
8	<p>B5.1 Samples of materials</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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	
Carried to Collection			R
Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL			
PROVISIONAL BILLS OF QUANTITIES			

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

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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	

Carried to Collection

R

Section No. 1
 Bill No. 1
 PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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:

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

R

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*

NO

Specific requirements:

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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:

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

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

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

Carried Forward

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

COLLECTION

Brought Forward

Total Brought Forward from Page No.

**Page
No**

Amount

R

- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35
- 36
- 37

Carried Forward to Summary of Section No. 1

R

Section No. 1

Bill No. 1

PRELIMINARIES AND GENERAL

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 2</u></p> <p><u>HEALTH AND SAFETY REQUIREMENTS</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>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.</p> <p>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.</p> <p>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.</p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>General:</u></p>			
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		
	Carried to Collection		R	
	Section No. 1 Bill No. 2 HEALTH AND SAFETY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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		
	Carried to Collection			R
	Section No. 1 Bill No. 2 HEALTH AND SAFETY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 1

Bill No. 2

HEALTH AND SAFETY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

40

41

Amount

Carried Forward to Summary of Section No. 1

R

Section No. 1

Bill No. 2

HEALTH AND SAFETY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Bill No	SECTION SUMMARY - SECTION NO.1 - PRELIMINIARIES AND GENERAL	Page No	Amount
1	PRELIMINARIES AND GENERAL	39	
2	HEALTH AND SAFETY	42	
Carried to Final Summary			
Section No. 1			R
PROVISIONAL BILLS OF QUANTITIES			

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2 - BUILDING WORKS</u>			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, 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>DEMOLITIONS</u>			
	<u>Ordinary demolitions</u>			
	Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor.			
	<u>CARPENTRY AND JOINERY</u>			
	<u>Timber doors and frames</u>			
1	Take out from one brick wall and cart away single timber door and frame size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere).	No	20	
2	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	4	
	<u>CEILINGS AND PARTITIONS</u>			
	<u>Internally</u>			
3	Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, bandering, supporting structures, etc.	m2	50	
4	Take down and cart away gypsum coved cornice.	m	50	
	Carried to Collection			R
	Section No. 2 Bill No. 1 ALTERATIONS			
	PROVISIONAL BILLS OF QUANTITIES			

<u>PLUMBING AND DRAINAGE</u>				
<u>Externally</u>				
1	Take down and cart away Upvc half round gutter including accessories.	m	32	
<u>Piping, fittings, etc.</u>				
2	Take off from walls, ceilings, etc. and cart away copper/polycrop water supply piping, fittings, valves, etc. of various diameters including temporary stopping of supply where necessary.	m	108	
3	Take off from walls, ceilings, etc. and cart away PVC waste water piping and fittings of various diameters.	m	72	
<u>Sanitaryware</u>				
4	Demolish and cart away white glazed WC pan and cistern complete including stopping off water supply.	No	20	
5	Demolish and cart away white glazed handbasin including stopping off water supply.	No	16	
6	Demolish and cart away stainless steel stall urinal 3000mm long including mass concrete step, 175mm high, including stopping off water supply.	No	1	
<u>Sundries</u>				
7	Take down and cart away toilet roll holders.	No	20	
<u>TILING</u>				
<u>Walls</u>				
8	Strip or hack white glazed tiling from plastered wall including washing down walls with antifungicidal solution and preparing plaster to receive new tiling (elsewhere).	m2	30	
<u>PLASTERING</u>				
Carried to Collection				R
Section No. 2				
Bill No. 1				
ALTERATIONS				
PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Floors</u>					
1	Hack up 25mm thick granolithic or floor screed and cart away including preparing surface bed to receive new screed (elsewhere).	m2	45		
<u>Walls</u>					
2	Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere).	m2	50		
<u>GLAZING</u>					
3	Take out 4mm thick glass from galvanised steel window including preparing frame to receive new glass (elsewhere).	m2	7		
<u>REFURBISHMENT, PREPARATORY WORKS, ETC.</u>					
<u>Sundry brickwork refurbishment</u>					
4	Replace broken brick in existing face brick wall with matching brick bedded, jointed and pointed in cement mortar to match existing.	No	132		
<u>General repair work</u>					
5	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	15		
<u>METAL WORK</u>					
<u>Servicing of windows, doors, etc.</u>					
6	Service window, size approximately 600 x 600mm high with top hung opening out light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	38		
<u>Refurbishment by cleaning</u>					
Carried to Collection					R
Section No. 2					
Bill No. 1					
ALTERATIONS					
PROVISIONAL BILLS OF QUANTITIES					

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Walls, concrete columns, tiling, etc.</u>			
1	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.	m2	324	
	<u>Refurbishment by cleaning</u>			
	<u>Floors, etc.</u>			
2	High pressure clean granolithic screed or concrete flooring.	m2	225	
	Carried to Collection			R
	Section No. 2 Bill No. 1 ALTERATIONS			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 1

ALTERATIONS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

44

45

46

47

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 1

ALTERATIONS

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 2</u>			
	<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	109	
	<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	91	
3	Seal with an approved anti-fungicidal white silicone sealant junction between sanitary fitting and worktop and/or wall tiling.	m	63	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 2			
	WATERPROOFING			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 3</u>			
	<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>PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.</u>			
	<u>EXISTING ROOF COVERINGS</u>			
	<u>Roof coverings</u>			
1	The Contractor is to allow hereunder for the thorough inspection of the Kliplok galvanised metal roof coverings, ridge cappings, accessories, etc. to ensure water tightness and complete integrity thereof including for replacement of missing drive screws, etc.	m2	211	
	<u>Flashings, etc.</u>			
2	The Contractor is to allow hereunder for the thorough inspection of the insitu galvanised sheet iron flashings, valley linings, etc. to ensure water tightness and complete integrity thereof including for replacement of missing drive screws, etc.	m	20	
	<u>Metal roof sheeting</u>			
	<u>0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with factory applied colour finish to external face and standard backing coat to internal face :</u>			
3	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	20	
	<u>Accessories</u>			
	Carried to Collection			R
	Section No. 2 Bill No. 3 ROOF COVERINGS, ETC.			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Accessories, etc. to match roof sheeting</u>				
1	Ridge capping 550mm girth.	m	5		
2	Broad flute serrated closer including polyclosers.	m	10		
3	Ridge finial.	No	1		
	<u>Insulation</u>				
4	"Sisalation 420" insulation laid taut over rafters at approximately 2400mm centres and fixed including galvanised steel straining wires where required.	m2	20		
	Carried to Collection				R
	Section No. 2 Bill No. 3 ROOF COVERINGS, ETC.				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 3

ROOF COVERINGS, ETC.

COLLECTION

Total Brought Forward from Page No.

**Page
No**

50

51

Amount

Carried Forward to Summary of Section No. 2

Section No. 2

Bill No. 3

ROOF COVERINGS, ETC.

PROVISIONAL BILLS OF QUANTITIES

R

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 4</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>JOINERY</u>			
	<u>Doors, windows, sashes, etc.</u>			
	<u>Semi-solid flush panel doors :</u>			
1	40mm Semi-solid core flush door, size 813 x 1732mm high, hung 150mm above floor finish, with commercial grade veneer both sides and concealed edge strips.	No	20	
	<u>Wrot hardwood :</u>			
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	4	
	<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			
3	70 x 108mm Rebated meranti jab linings fixed to walls.	m	72	
	Carried to Collection			R
	Section No. 2			
	Bill No. 4			
	CARPENTRY AND JOINERY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	Framed frame, to suit single door size 813 x 2032mm high overall.	No	4		
	<u>Sundries</u>				
2	19mm Hardwood quadrant moulding planted on.	m	140		
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	24		
	<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	32		
5	Check fibre cement barge 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	44		
	<u>Pressed fibre-cement:</u>				
6	12 x 228mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	6		
7	80 x 275mm Barge board drilled and brass screwed to timber purlins including galvanised steel H-profile jointing strips, etc.	m	5		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 4				
	CARPENTRY AND JOINERY				
	PROVISIONAL BILLS OF QUANTITIES				

Section No. 2

Bill No. 4

CARPENTRY AND JOINERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

53

54

Amount

Carried Forward to Summary of Section No. 2

Section No. 2

Bill No. 4

CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

R

Item No		Quantity	Rate	Amount
	<u>BILL No. 5</u>			
	<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	200	
	<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	50	
	<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	2	
	Carried to Collection			R
	Section No. 2			
	Bill No. 5			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PROVISIONAL BILLS OF QUANTITIES			

Cornices

Work to existing cornices

1	Check gypsum plasterboard cornice, realign where necessary and ensure cornice is securely nailed to branding or wall.	m	116	
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Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:

2	75mm Coved cornice.	m	50	
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Carried to Collection

R

Section No. 2
Bill No. 5
CEILINGS, PARTITIONS AND ACCESS FLOORING

PROVISIONAL BILLS OF QUANTITIES

Section No. 2

Bill No. 5

CEILINGS, PARTITIONS AND ACCESS FLOORING

COLLECTION

Total Brought Forward from Page No.

**Page
No**

56

57

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 5

CEILINGS, PARTITIONS AND ACCESS FLOORING

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 6</u>			
	<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	100 x 75mm Heavy duty brass butt hinges.	No	52	
	<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	4	
	<u>Push plates, kicking plates, indicator plates, etc.</u>			
	<u>3mm Thick x 32mm high blue perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame</u>			
3	Sign with "MALE ABLUTIONS" enscribed.	No	1	
4	Sign with "FEMALE ABLUTIONS" enscribed.	No	1	
5	Sign with "DISABLE ABLUTIONS" enscribed.	No	1	
6	Sign with "STAFF ABLUTIONS" enscribed.	No	2	
	<u>Door stops</u>			
7	Black rubber door stop plugged to wall or floor.	No	24	
	Carried to Collection			R
	Section No. 2			
	Bill No. 6			
	IRONMONGERY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
1	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish.	No	4	
2	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt.	No	20	
	<u>Handles, furniture, etc.</u>			
3	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets)	No	24	
	<u>Stops, holders, hooks, etc.</u>			
4	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door.	No	20	
	<u>Sundries</u>			
5	50mm Plastic key tag.	No	24	
	Carried to Collection			R
	Section No. 2 Bill No. 6 IRONMONGERY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 6

IRONMONGERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

59

60

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 6

IRONMONGERY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 7</u>			
	<u>METALWORK</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>STEEL</u>			
	<u>Stairs, balustrading, cat ladders, grilles, gates, framework, etc.</u>			
	<u>GATES</u>			
	<u>Hot dipped galvanised mild steel</u>			
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel square tubing framing all round with mitred and welded angles, the gate filled in with 12 x 12mm mild steel bars welded, at each end, 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, the leaf fitted with a set of hinges fixed to brickwall with and including masonry anchors.(G1)	No	5	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 7 METALWORK			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<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	45	
	<u>Skirtings</u>			
2	75mm High covered granolithic skirting in patches to receive finish (elsewhere measured).	m	182	
	<u>PLASTER</u>			
	<u>One coat internal 1:4 cement plaster on :</u>			
3	Brick wall in narrow widths not exceeding 300mm wide.	m2	25	
4	Walls in patching.	m2	50	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 8			
	PLASTERING			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<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	32	
2	Extra over eaves gutter for stopped end.	No	4	
3	Extra over eaves gutter for outlet for 80mm diameter downpipe.	No	4	
4	80mm Diameter rainwater pipes in continuous lengths fixed to timber gumpoles with and including proprietary holderbats.	m	20	
5	Extra over rainwater pipe for bend.	No	8	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 10 polycop pipes with straight compression fittings</u>			
6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	66	
	Carried to Collection			R
	Section No. 2			
	Bill No. 9			
	PLUMBING AND DRAINAGE			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	22mm Ditto.	m	80		
2	15mm Pipe chased into brickwork.	m	80		
3	22mm Ditto.	m	42		
	<u>Extra over copper pipes for brass compression fittings</u>				
4	15mm Fittings.	No	156		
5	22mm Fittings.	No	108		
	<u>Connections</u>				
	<u>Connection of new to existing pipes</u>				
6	Connection of 32mm diameter HDPE to 22mm diameter polycop pipes including all necessary reducers, saddles, etc.	No	4		
	<u>Testing :</u>				
7	Allow for testing the preceding water supply installation in accordance with the National Building Regulations.			Item	
	<u>SOIL DRAINAGE</u>				
	<u>uPVC Pipes with solvent welded straight joints :</u>				
8	50mm Pipes.	m	72		
9	110mm Pipes.	m	58		
	<u>Extra over uPVC pipes for solvent welded fittings :</u>				
10	50mm Plain bend.	No	40		
11	110mm Plain bend.	No	30		
12	50mm Access bend.	No	20		
13	110mm Access bend.	No	20		
	Carried to Collection				R
	Section No. 2 Bill No. 9 PLUMBING AND DRAINAGE				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Gulleys, grease traps, etc.</u>				
1	100mm Diameter uPVC gulley trap with universal gulley head set flush in with finished pavement level including encasing in 15MPa concrete 100mm thick all round.	No	4		
2	430 x 430 x 175mm Precast concrete gulley top, bedded over gulley in cement mortar.	No	4		
	<u>Testing :</u>				
3	Allow for testing the preceding sanitary plumbing installation in accordance with the National Building Regulations.			Item	
	<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>				
	<u>Sanitary fittings, etc.</u>				
	<u>White glazed vitreous china ware :</u>				
4	Rectangular washhand basin, size 560 x 405mm, with one tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts.	No	16		
5	Close coupled washdown suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flushpipe bedded to floor in 1:4 cement mortar mixture.	No	20		
6	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets .	No	4		
	<u>Sanitary fitting sundries</u>				
7	Satin chrome thief proof toilet roll holder, TR2, plugged to wall.	No	20		
8	Heavy-duty double-flap hinged toilet seat and cover.	No	20		
9	150 x 150mm White glazed soap dish.	No	16		
	Carried to Collection				R
	Section No. 2 Bill No. 9 PLUMBING AND DRAINAGE				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Taps, valves, etc.

Solid cast brass taps, valves, etc.

1	15mm Brass ball-o-stop.	No	40
2	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	16
3	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	4
4	22mm Brass non-return valve.	No	4

Waste unions, traps, etc.

Outlets, traps, etc :

5	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	16
6	38mm Chromium plated urinal waste outlet.	No	4
7	38mm Butyl rubber flexible deepseal sink P-trap.	No	16
8	50mm Chromium plated brass basin bottle trap.	No	4

Carried to Collection

R

Section No. 2
Bill No. 9
PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 9

PLUMBING AND DRAINAGE

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

64

65

66

67

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 9

PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<u>GLAZING</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>GLAZING</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6,38mm Thick normal strength clear laminated safety glass:</u>			
1	In panes exceeding 0,1m2 and not exceeding 0,5m2 in area.	m2	7	
	<u>Sundries</u>			
2	Rake out putty from galvanised steel window frame and replace with new.	m	76	
	<u>Glass tops, shelves, doors, mirrors, etc.</u>			
3	4mm Thick polished float glass mirror, size 450 x 600mm, four times plugged to wall with and including chromium plated dome headed screws.	No	16	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 10			
	GLAZING			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 11</u>			
	<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 interior washable acrylic washable emulsion sheen paint on:</u>			
1	Internal plastered walls.	m2	546	
2	Internal smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	33	
	<u>Prepare and apply two coats granolithic paint on :</u>			
3	Existing internal concrete floors.	m2	225	
4	Skirtings in narrow widths not exceeding 300mm high.	m	182	
	<u>PREVIOUSLY PAINTED GYPSUM PLASTERBOARD</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 interior acrylic emulsion sheen paint on:</u>			
5	Internal ceiling boarding.	m2	209	
	<u>PREVIOUSLY PAINTED FIBRE CEMENT</u>			
	Carried to Collection			R
	Section No. 2 Bill No. 11 PAINTWORK			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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:

1	External fibre cement fascia boarding including priming cover strips.	m2	9	
2	External fibre cement bargeboard including priming cover strips.	m2	16	

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	23	
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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:

4	Steel windows with burglar bars (both sides measured).	m2	27	
5	IBR corrugated steel roof sheeting.	m2	211	

PREVIOUSLY PAINTED TIMBER

Sand down painted surface to bare timber and apply one coat exterior primer, one coat undercoat and two coats flat enamel paint on:

6	General surfaces of timber rafters, beams, etc.	m2	50	
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NEW WORKS

PAINT ON TIMBER

Prime or oil on :

7	Backs of frames or linings not exceeding 300mm girth.	m	92	
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Carried to Collection

R

Section No. 2
Bill No. 11
PAINTWORK

PROVISIONAL BILLS OF QUANTITIES

<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>					
1	Surfaces of flush panel doors.	m2	86		
2	Surfaces of frames and linings.	m2	24		
<u>Prepare and apply two coats carbolineum on:</u>					
3	General surfaces of roof timbers.	m2	25		
4	General surfaces of roof timbers not exceeding 300mm girth.	m	30		
<u>PAINT ON FIBRE-CEMENT</u>					
<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>					
5	External fibre cement fascia boarding including priming cover strips.	m2	2		
6	External fibre cement bargeboard including priming cover strips.	m2	2		
Carried to Collection					R
Section No. 2 Bill No. 11 PAINTWORK					
PROVISIONAL BILLS OF QUANTITIES					

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 11

PAINTWORK

COLLECTION

Total Brought Forward from Page No.

**Page
No**

70

71

72

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 11

PAINTWORK

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>EXTERNAL WORKS (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>TEMPORARY BARRIERS, SCREENS, ECT.</u>			
	<u>TEMPORARY HOARDING</u>			
	Note: Contractor to price for the taking down and carting away hoarding on completion.			
	<u>Site clearance</u>			
1	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs, etc., not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	200	
2	External barricade screen, 1800mm high overall, comprising 100-125mm diameter tanalith treated gumpoles planted 650mm deep in ground at 3000mm centres comprising of six strands of 4mm galvanised straining wires (evenly spaced) secured to posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and yellow and orange barrier shade cloth fixed to straining wires with 20Mpa mass concrete base size 400 x 400 x 550mm thick with sloping top surface including all necessary excavations, backfilling, risk of collapse and carting away surplus material, etc.	m	200	
	Carried to Collection			R
	Section No. 2 Bill No. 12 EXTERNAL WORKS			
	PROVISIONAL BILLS OF QUANTITIES			

	<u>Hot dipped galvanised steel gates</u>			
1	Security fence double gate, size 3000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth.	No	2	
	<u>THE FOLLOWING IN WALKWAYS</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>			
2	Reduced levels between buildings, retaining walls, etc.	m3	38	
	<u>Carting away of excavated material</u>			
3	Extra over all excavations for loading surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	38	
	<u>BASECOURSES</u>			
4	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	38	
	<u>Sundries</u>			
5	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	250	
	<u>Prescribed Testing</u>			
6	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	13	
	Carried to Collection			R
	Section No. 2 Bill No. 12 EXTERNAL WORKS			
	PROVISIONAL BILLS OF QUANTITIES			

<u>Weedkillers, insecticides, etc.</u>				
<u>Soil insecticide in accordance with SANS 5859</u>				
1	Under paving, etc.	m2	250	
<u>PRECAST CONCRETE PAVERS</u>				
<u>Grey interlocking precast concrete pavers type S-A laid in herringbone pattern with header course perimeter margin</u>				
2	50mm Thick laid on and including 25mm sand bed treated with weed killer and cement/sand mixture swept into joints on completion.	m2	250	
<u>Sundries</u>				
3	Circular cutting on 50mm thick non bevelled concrete pavers.	m	42	
<u>Channelling, kerbing, edging, etc.</u>				
<u>Precast concrete kerbing</u>				
4	Precast semi-mountable concrete Fig 8B edge kerb size 300 x 175mm high cast in lengths not exceeding 1m and with expansion joints at not exceeding 10m centres finished smooth off the mould on all exposed surfaces bedded on and including minimum 50mm thick mass concrete 15 MPa base and backing including all necessary excavation, formwork, expansion joints, etc.	m	374	
5	Ditto, but circular on plan to not exceeding 4m radius.	m	42	
<u>THE FOLLOWING IN WATER SUPPLY</u>				
<u>ALTERATIONS TO EXISTING</u>				
6	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1	
7	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
8	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
Carried to Collection				R
Section No. 2				
Bill No. 12				
EXTERNAL WORKS				
PROVISIONAL BILLS OF QUANTITIES				

PIPEWORK, ETC.

Pipes, pipe fittings, etc.

Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200

1	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	240
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2	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	160
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Extra over uPVC pipes for the following fittings

3	32mm bend.	No	32
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4	40mm bend.	No	16
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5	32mm Tee junction.	No	12
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6	40mm Tee junction.	No	8
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7	32 x 40 x 32mm Reducing tee.	No	1
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8	32 x 54 x 32mm Reducing tee.	No	1
---	------------------------------	----	---

9	40 x 63 x 40mm Reducing tee.	No	1
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Water supply valve or meter chambers

10	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	5
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Taps, valves, etc.

11	32mm Gate valve.	No	5
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12	32mm Non return valve.	No	1
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Carried to Collection

R

Section No. 2
Bill No. 12
EXTERNAL WORKS

PROVISIONAL BILLS OF QUANTITIES

	<u>Testing</u>				
1	Allow for testing the water supply installation in accordance with the National Building Regulations.			Item	
	<u>THE FOLLOWING IN SOIL DRAINAGE</u>				
	Pipe depth categories and manholes, catchpits, etc. have been measured to the designed invert levels of same. The Contractor is to allow for in his rates for any additional excavation, bedding, backfilling, making up levels, etc. he deems necessary to make up any difference to actual depth.				
	<u>EXISTING SERVICES</u>				
	Jet or high pressure cleaning to be carried out on subsurface piping, rodding eyes, manholes, etc. to be carried out to the complete satisfaction of the Engineer.				
	<u>Pipes</u>				
2	110mm Pipe fixed to walls.	m	20		
3	110mm Pipe not exceeding 1000mm deep.	m	200		
4	110mm Pipe exceeding 1000mm not exceeding 2000mm deep.	m	80		
	<u>Rodding eyes</u>				
5	110mm Diameter PVC rodding eye.	No	40		
	<u>Brick manholes</u>				
6	Manhole not exceeding 1000mm deep.	No	10		
7	Manhole exceeding 1000mm not exceeding 2000mm deep.	No	4		
	<u>ALTERATIONS TO EXISTING</u>				
8	Cut into and stop off temporarily 110mm soil pipe for new manhole construction (elsewhere).	No	1		
9	Cut into and stop off temporarily 110mm soil pipe for insertion of Tee junction (elsewhere).	No	1		
	Carried to Collection				R
	Section No. 2 Bill No. 12 EXTERNAL WORKS				
	PROVISIONAL BILLS OF QUANTITIES				

<u>NEW WORKS</u>					
<u>Class 34 Rigid uPVC socketed soil piping with bedding and filling in accordance with SABS 1200</u>					
1	110mm Pipe and excavation not exceeding 1000mm deep.	m	80		
2	110mm Pipe and excavation exceeding 1000mm not exceeding 2000mm deep.	m	20		
<u>Extra over uPVC pipes for fittings</u>					
3	110mm 90 Degree bend.	No	25		
4	110mm Junction.	No	5		
<u>Rodding eyes, etc.</u>					
5	PVC Rodding eye and frame and joint to top of 110mm uPVC pipe.	No	5		
<u>Sundries</u>					
6	300 x 300 x 75mm Precast concrete inspection eye marker slab set in position including excavations, carting away, ect.	No	8		
<u>MANHOLES, ETC.</u>					
7	Excavate for and build manhole size 1440 x 1440 x not exceeding 1000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	1		
Carried to Collection					R
Section No. 2					
Bill No. 12					
EXTERNAL WORKS					
PROVISIONAL BILLS OF QUANTITIES					

1	Excavate for and build manhole size 1440 x 1440 x exceeding 1000mm not exceeding 2000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	4	
	<u>Cast iron covers and frames</u>			
2	Type 2A cast iron manhole cover and frame size 620mm diameter bedded on top of concrete slab in cement mortar.	No	5	
	<u>Testing</u>			
3	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.		Item	
	<u>THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>			
	<u>Rainwater harvesting (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>			
4	Reduced levels under solid floors.	m3	1	
5	Surface trenches.	m3	15	
	<u>Excavations in earth of more difficult character</u>			
6	Extra over excavations in earth for excavation in soft rock.	m3	2	
7	Extra over excavations in earth for excavation in hard rock.	m3	1	
	Carried to Collection			R
	Section No. 2			
	Bill No. 12			
	EXTERNAL WORKS			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Carting away of excavated material</u>					
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	9		
<u>Risk of collapse of excavations</u>					
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	43		
<u>Keeping excavations free of water</u>					
3	Allow for keeping the excavations free from water.		Item		
<u>Filling, layerworks, etc.</u>					
4	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	7		
5	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	7		
<u>Compaction of surfaces</u>					
6	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	16		
<u>Tests</u>					
7	Allow for Mod AASHTO density tests on filling.	No	4.00		
<u>Reinforced concrete 25MPa in:</u>					
8	Strip foundations cast against excavated surfaces.	m3	5		
9	Surface beds cast in panels including temporary formwork.	m3	2		
<u>Sundries</u>					
10	Float surface of concrete to a wood float finish.	m2	16		
Carried to Collection					R
Section No. 2					
Bill No. 12					
EXTERNAL WORKS					
PROVISIONAL BILLS OF QUANTITIES					

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Rough formwork (use and waste) to concrete to:</u>				
1	Edge, riser, etc not exceeding 300mm high.	m	32		
	<u>High tensile welded steel mesh reinforcement :</u>				
2	Ref: 395 cast into concrete surfaces.	m2	14		
3	Ref: 395 cast into concrete strip footings.	m2	29		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
4	One brick wall.	m2	15		
5	One brick wall in foundations. (Provisional)	m2	15		
	<u>Brickwork sundries :</u>				
6	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	86		
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
7	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	15		
8	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	5		
	<u>Face brick copings, lintols, cills, etc.</u>				
9	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	32		
	<u>Movement joints</u>				
10	10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	10		
11	Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.	m	18		
	Carried to Collection				R
	Section No. 2				
	Bill No. 12				
	EXTERNAL WORKS				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<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	4		
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	16		
	<u>250 Micron "Gunplas USB" green polyethylene sheeting</u>				
	⋮				
3	Laid flat under solid floor and over walls.	m2	14		
	<u>Rainwater tanks:</u>				
4	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet , 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	4		
5	Hole through top of tank lid for 100mm diameter pipe.	No	4		
	<u>THE FOLLOWING IN SECURITY FENCING</u>				
	<u>SECURITY FENCING</u>				
	The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.				
	<u>"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions</u>				
	<u>Fencing</u>				
6	High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).	No	11		
	Carried to Collection				
	Section No. 2 Bill No. 12 EXTERNAL WORKS				R
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	High security galvanised, marine fusion bond coated, mesh fencing panel, size 2300 x 1800mm high fixed to posts (elsewhere).	No	1		
	<u>Posts</u>				
2	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	11		
3	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4		
4	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2		
	<u>Gates</u>				
5	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1		
	<u>Accessories</u>				
6	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40		
7	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1		
	<u>Sundries</u>				
8	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	0.1		
Carried to Collection					
Section No. 2					
Bill No. 12					
EXTERNAL WORKS					
PROVISIONAL BILLS OF QUANTITIES					
				R	

1	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	0.1	
<u>THE FOLLOWING IN ELEVATED TANKS AND GROUND STORAGE (ALL TRADES)</u>				
<u>EXCAVATIONS, FILLING, 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>				
2	Reduced levels under solid floors.	m3	11	
<u>Excavations in earth of more difficult character</u>				
3	Extra over excavations in earth for excavation in soft rock.	m3	1	
<u>Carting away of excavated material</u>				
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	12	
<u>Risk of collapse of excavations</u>				
5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	10	
<u>Keeping excavations free of water</u>				
6	Allow for keeping the excavations free from water.		Item	
<u>Foundation courses</u>				
7	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	4	
8	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	4	
Carried to Collection				R
Section No. 2				
Bill No. 12				
EXTERNAL WORKS				
PROVISIONAL BILLS OF QUANTITIES				

<u>Compaction of surfaces</u>					
1	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	27		
<u>Tests</u>					
2	Allow for Mod AASHTO density tests on filling.	No	2.00		
<u>CONCRETE (Labour intensive)</u>					
<u>Reinforced concrete 30MPa (19mm stone) in:</u>					
3	Rafter slabs cast against excavated surfaces.	m3	8		
<u>Testing</u>					
4	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)	Sets	2		
<u>Surface treatment</u>					
5	Float surface of concrete to a wood float finish.	m2	27		
Carried to Collection					R
Section No. 2					
Bill No. 12					
EXTERNAL WORKS					
PROVISIONAL BILLS OF QUANTITIES					

<u>FORMWORK</u>					
<u>Edges, risers, ends and reveals</u>					
1	Edge, riser, etc exceeding 300mm high.	m2	11		
<u>Projections, grooves, etc.</u>					
2	Labour and material in forming 25 x 25mm chamfer to exposed top edge of concrete.	m	24		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>High tensile welded steel mesh reinforcement :</u>					
3	Ref: 395 cast into concrete surfaces.	m2	27		
<u>PLUMBING AND DRAINAGE</u>					
<u>ALTERATIONS TO EXISTING</u>					
4	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of reducing fitting (elsewhere).	No	2		
<u>Pipes, pipe fittings, etc.</u>					
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>					
5	40mm Pipe.	m	90		
6	50mm Pipe.	m	12		
7	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10		
<u>Extra over uPVC pipes for the following fittings</u>					
8	40mm Bend.	No	27		
9	50mm Bend.	No	5		
10	40mm Tee junction.	No	2		
11	63 x 40mm Straight reducer	No	2		
Carried to Collection					R
Section No. 2 Bill No. 12 EXTERNAL WORKS					
PROVISIONAL BILLS OF QUANTITIES					

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Taps, valves, etc.

1	40mm float valve kit fitted inside of tank.	No	3
2	40mm In-line strainer.	No	2
3	40mm Brass gate valve.	No	3
4	40mm Brass non return valve.	No	1
5	40mm Flanged resilient seal gate valve with cap top.	No	2
6	40mm Flanged pressure reducing valve.	No	1

Switch

7	Float switch fitted inside of tank.	No	2
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Connections

Connection of new to existing pipes

8	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2
9	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2
10	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1

Rainwater tanks:

11	20 000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet, 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	3
12	Hole through side of tank for 40mm diameter pipe including adaptor.	No	6

Carried to Collection

R

Section No. 2
Bill No. 12
EXTERNAL WORKS

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<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 M10 bolt and nut.	No	3		
2	38 x 1,6mm Galvanised hoop iron tie down, 2500mm 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	12		
	<u>Water supply valve or meter chambers</u>				
3	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	4		
	<u>Pump and Pumphouse</u>				
4	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.		Item		15,000.00
	<u>ELECTRICAL CONNECTION</u>				
	<u>Elevated Tank Electrical Works</u>				
5	Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item		30,000.00
	<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>				
	<u>Portable toilets</u>				
6	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	10		
7	Servicing and maintain the five portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	40		
8	Removal of the portable chemical toilet on completion of the contract.	No	10		
	Carried to Collection				
	Section No. 2				
	Bill No. 12				
	EXTERNAL WORKS				
	PROVISIONAL BILLS OF QUANTITIES				
				R	

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 2

Bill No. 12

EXTERNAL WORKS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 12

EXTERNAL WORKS

PROVISIONAL BILLS OF QUANTITIES

SECTION SUMMARY - SECTION NO.2 - BUILDING WORKS

Bill No		Page No		Amount
1	ALTERATIONS	48		
2	WATERPROOFING	49		
3	ROOF COVERINGS, ETC.	52		
4	CARPENTRY AND JOINERY	55		
5	CEILINGS, PARTITIONS AND ACCESS FLOORING	58		
6	IRONMONGERY	61		
7	METALWORK	62		
8	PLASTERING	63		
9	PLUMBING AND DRAINAGE	68		
10	GLAZING	69		
11	PAINTWORK	73		
12	EXTERNAL WORKS	90		
	Carried to Final Summary			
	Section No. 2		R	
	PROVISIONAL BILLS OF QUANTITIES			

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3 - NEW ABLUTION BLOCK</u>			
	<u>BILL No. 1</u>			
	<u>EARTHWORKS (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>EXCAVATIONS, FILLING, ETC.</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 inside existing buildings.	m3	7	
2	Surface trenches.	m3	53	
	<u>Excavations in earth of more difficult character</u>			
3	Extra over excavations in earth for excavation in soft rock.	m3	5	
4	Extra over excavations in earth for excavation in hard rock.	m3	6	
	<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	23	
	Carried to Collection			R
	Section No. 3 Bill No. 1 EARTHWORKS			
	PROVISIONAL BILLS OF QUANTITIES			

<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	152	
<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	30	
<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 98% modified AASHTO dry density under solid floors.	m3	7	
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	7	
6	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc.	m3	2	
<u>Compaction of surfaces</u>				
7	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	49	
<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	49	
9	To bottoms and sides of trenches.	m2	195	
Carried to Collection				R
Section No. 3				
Bill No. 1				
EARTHWORKS				
PROVISIONAL BILLS OF QUANTITIES				

Tests

1 Allow for Mod AASHTO density tests on filling.

No

5

Carried to Collection

R

Section No. 3
 Bill No. 1
 EARTHWORKS

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 1

EARTHWORKS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

92

93

94

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 1

EARTHWORKS

PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<u>BILL No. 2</u>			
	<u>CONCRETE, FORMWORK & REINFORCEMENT (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>CONCRETE (Labour intensive)</u>			
	<u>Mass concrete 15MPa (19mm stone) in:</u>			
1	Blinding beneath bases, strip footings, etc cast against excavated surfaces.	m3	2	
	<u>Reinforced concrete 25MPa (19mm stone) in:</u>			
2	Strip foundations cast against excavated surfaces.	m3	9	
	<u>Reinforced concrete 30MPa (19mm stone) in:</u>			
3	Surface beds cast in panels including temporary formwork.	m3	5	
	<u>Testing</u>			
4	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)	Sets	10	
	<u>Surface treatment</u>			
5	Float surface of concrete to a wood float finish.	m2	49	
	Carried to Collection			R
	Section No. 3			
	Bill No. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PROVISIONAL BILLS OF QUANTITIES			

FORMWORK

Rough formwork (use and waste) to concrete to:

Edges, risers, ends and reveals

1	Edge, riser, etc not exceeding 300mm high.	m	20
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Movement joints

To horizontal surfaces

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	77
---	---	---	----

REINFORCEMENT (PROVISIONAL)

Mild steel rod reinforcement to structural concrete work

3	10mm Diameter bars.	t	0.010
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High tensile rod reinforcement to structural concrete work

4	10mm Diameter bars.	t	0.100
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5	12mm Diameter bars.	t	0.100
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6	16mm Diameter bars.	t	0.100
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High tensile welded steel mesh reinforcement :

7	Ref: 617 cast into concrete surfaces.	m2	49
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8	Ref: 888 cast into concrete strip footings.	m2	43
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Carried to Collection

R

Section No. 3
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

PROVISIONAL BILLS OF QUANTITIES

Section No. 3

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

Total Brought Forward from Page No.

**Page
No**

96

97

Amount

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 3</u>			
	<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>FOUNDATION BRICKWORK (PROVISIONAL)</u>			
	<u>Walls and linings in loadbearing brickwork (14MPa) in stock bricks in 5:1 cement mortar :</u>			
1	One brick wall.	m2	91	
	<u>Reinforcement to brickwork</u>			
2	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	268	
	<u>FACE BRICKWORK</u>			
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>			
3	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	18	
	<u>MASONRY</u>			
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Walls and linings in loadbearing brickwork (14MPa) in stock bricks in 5:1 cement mortar :</u>			
4	Half brick wall.	m2	43	
5	One brick wall.	m2	209	
	Carried to Collection			R
	Section No. 3 Bill No. 3 MASONRY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Beamfilling</u>				
1	Half brick wall in beamfilling.	m2	14	
<u>Bagging</u>				
2	Bag down outer face of inner skin of brick wall in 4:1 cement slurry.	m2	169	
<u>Reinforcement to brickwork</u>				
3	Galvanised brick reinforcement 115mm wide built horizontally into brickwork.	m	141	
4	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	679	
<u>Turning pieces</u>				
5	Turning piece to soffit of one rick wall at lintols, etc.	m	29	
Carried to Collection				R
Section No. 3				
Bill No. 3				
MASONRY				
PROVISIONAL BILLS OF QUANTITIES				

<u>EXTERNAL FACE BRICKWORK</u>					
<u>Test:</u>					
1	Contractor is to construct L-Shape one brick facebrick wall faced on both sides including pointing, size 1000 x 1000 x 1000mm high to be approved by the principal agent before brickwork proceeds.		Item		
<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>					
2	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2		14	
<u>Face brick copings, lintols, cills, etc.</u>					
3	Extra over brickwork for 220mm brick-on-edge cill including pointing to face and top.	m		14	
4	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m		16	
<u>Walls faced both sides</u>					
<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>					
5	Extra over ordinary half brick wall for facing and pointing on both sides in stretcher bond.	m2		43	
6	Extra over ordinary one brick wall for facing and pointing on both sides in stretcher bond.	m2		209	
<u>Fair cutting to face brickwork</u>					
7	Fair cutting to raking facebrick.	m		18	
<u>MISCELLANEOUS</u>					
<u>Air bricks etc:</u>					
8	230 x 160 x 35mm Terracotta vermin proof air brick.	No		24	
Carried to Collection					R
Section No. 3					
Bill No. 3					
MASONRY					
PROVISIONAL BILLS OF QUANTITIES					

	<u>Hoop iron ties, cramps, etc.</u>			
1	1.6 x 30mm Galvanized hoop iron roof tie 1500mm 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	52	
	Carried to Collection			R
	Section No. 3 Bill No. 3 MASONRY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 3

MASONRY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

99

100

101

102

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 3

MASONRY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 4</u>			
	<u>WATERPROOFING</u>			
	<u>Note:</u>			
	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>DAMP-PROOF COURSE</u>			
	<u>375 Micron polyethylene damp-proof sheeting :</u>			
1	Laid in walls.	m2	13	
	<u>SHEET OR MEMBRANE WATERPROOFING (Labour intensive)</u>			
	<u>Sheet or membrane waterproofing to floors</u>			
	<u>250 Micron "Gunplas USB" green polyethylene sheeting :</u>			
2	Laid flat on prepared sand bed under solid floor.	m2	54	
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Joint sealants</u>			
	<u>To horizontal surfaces</u>			
3	Remove hinged blocking piece and fill 10 x 10mm top surface cavity with "Sikaflex Pro2HP" or other equal approved two part polyurethane sealer.	m	77	
	<u>Sundry</u>			
4	Seal and point around window and door frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	117	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 4			
	WATERPROOFING			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>Note:</u>			
	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>PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.</u>			
	<u>Metal roof sheeting</u>			
	<u>0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :</u>			
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	91	
	<u>Accessories</u>			
	<u>Accessories, etc. to match roof sheeting</u>			
2	Ridge capping 550mm girth.	m	20	
	<u>Insulation</u>			
3	"Sisalation 420" insulation laid taut over rafters at approximately 2400mm centres and fixed including galvanised steel straining wires where required.	m2	91	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 5 ROOF COVERING			
	PROVISIONAL BILLS OF QUANTITIES			

Item No		Quantity	Rate	Amount
	<u>BILL No. 6</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>PLATE NAILED TIMBER ROOF CONSTRUCTION</u>			
	<u>Fixing:</u> 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. Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Erection certificates</u>			
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	2	
	<u>Sawn softwood :</u>			
2	38 x 114mm Wall plate.	m	41	
3	50 x 76mm Purlins.	m	163	
4	50 x 76mm Bracing.	m	24	
5	38 x 152mm Rafters.	m	88	
	Carried to Collection			R
	Section No. 3 Bill No. 6 CARPENTRY AND JOINERY			
	PROVISIONAL BILLS OF QUANTITIES			

<u>Sundries:</u>					
1	Hurricane clip fixed to purlin and rafter.	No	90		
<u>JOINERY</u>					
<u>Doors, windows, sashes, etc.</u>					
<u>Wrot hardwood :</u>					
2	44mm Thick framed, ledged, braced and battened door size 813 x 1832mm 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	10		
3	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	2		
4	44mm Thick framed, ledged, braced and battened door size 950 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		
<u>Frames, rails, skirtings, etc.</u>					
Carried to Collection				R	
Section No. 3					
Bill No. 6					
CARPENTRY AND JOINERY					
PROVISIONAL BILLS OF QUANTITIES					

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Meranti timber door frames

Note :

All units are to constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face

1	Framed frame, to suit single door size 813 x 1832mm high overall.	No	10	
2	Framed frame, to suit single door size 813 x 2032mm high overall.	No	2	
3	Framed frame, to suit single door size 950 x 2032mm high overall.	No	1	

Sundries

4	10 x 140mm Door frame anchor countersunk and pelleted in timber frame, at approximately 600mm centres, including forming mortice in brickwork or concrete.	No	104	
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Carried to Collection

R

Section No. 3
Bill No. 6
CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

Plastic, fibre cement, etc.

Pressed fibre-cement:

1	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	41
2	85 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc.	m	18

Carried to Collection

R

Section No. 3
Bill No. 6
CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 6

CARPENTRY AND JOINERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

106

107

108

109

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 6

CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 7</u>			
	<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 DOORS, FRAMES, ETC.</u>			
	<u>Hinges, bolts, etc.</u>			
1	100 x 75mm Heavy duty brass butt hinges.	No	26	
	<u>Push plates, kicking plates, indicator plates, etc.</u>			
	<u>3mm Thick x 32mm high blue perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame</u>			
2	Sign with "MALE ABLUTIONS" enscribed.	No	1	
3	Sign with "FEMALE ABLUTIONS" enscribed.	No	1	
	<u>Locksets, etc. to be masterkeyed</u>			
4	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish.	No	3	
5	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt.	No	10	
	<u>Handles, furniture, etc.</u>			
6	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets)	No	13	
	Carried to Collection			R
	Section No. 3 Bill No. 7 IRONMONGERY			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Stops, holders, hooks, etc.</u>				
1	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door.	No	10		
	<u>IRONMONGERY FIXED TO CONCRETE, TILING, ETC.</u>				
	<u>Stops, holders, hooks, etc.</u>				
2	38mm Black rubber door stop plugged to wall or floor.	No	5		
	Carried to Collection			R	
	Section No. 3 Bill No. 7 IRONMONGERY				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 7

IRONMONGERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

111

112

Amount

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 7

IRONMONGERY

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<u>METALWORK</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>STEEL</u>			
	<u>Stairs, balustrading, cat ladders, grilles, gates, framework, etc.</u>			
	<u>GATES</u>			
	<u>Hot dipped galvanised mild steel</u>			
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel square tubing framing all round with mitred and welded angles, the gate filled in with 12 x 12mm mild steel bars welded, at each end, 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, the leaf fitted with a set of hinges fixed to brickwall with and including masonry anchors.(G1)	No	2	
2	Double gate, size 1800mm wide x 2050mm high, in two equal leaves, ditto. (G2)	No	1	
	Carried to Collection			R
	Section No. 3 Bill No. 8 METALWORK			
	PROVISIONAL BILLS OF QUANTITIES			

OTHER METALS

Aluminium windows, doors, etc.

All aluminium work is to be manufactured in accordance with AAMSA specifications by a registered Member of the Association

All units are to be pre-glazed in accordance with the requirements of the National Building Regulations, unless otherwise specifically noted

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

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.

NATURAL ANODISED ALUMINIUM

Natural anodised pre-glazed aluminium windows complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around same with silicone sealant, etc.

1	Top hung opening out window, size overall 600 x 600mm high, glazed with and including 6.38mm clear laminated safety glass.(W1)	No	24	
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Carried to Collection

R

Section No. 3
Bill No. 8
METALWORK

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 8

METALWORK

COLLECTION

Total Brought Forward from Page No.

**Page
No**

114

115

Amount

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 8

METALWORK

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<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>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
1	30mm Thick screed to floors and landings.	m2	66	
	<u>Skirtings</u>			
2	75mm High coved granolithic skirting to receive epoxy finish (elsewhere measured).	m	79	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 9			
	PLASTERING			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<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>Powder coated seamless aluminium rainwater gutters, downpipes and accessories</u>			
1	85 x 125mm Gutter fixed to fascia at maximum 600mm centres with and including proprietary fixings.	m	20	
2	Extra over gutter for forming discharge outlet to suit 75 x 100mm downpipe.	No	4	
3	Extra over gutter for stopped end.	No	4	
4	75 x 100mm Rainwater downpipe fixed to wall with and including proprietary holderbats.	m	18	
5	Extra over rainwater downpipe for bend.	No	6	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 10 polycop pipes with straight compression fittings</u>			
6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	20	
7	22mm Ditto.	m	20	
	Carried to Collection			R
	Section No. 3 Bill No. 10 PLUMBING AND DRAINAGE			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	15mm Pipe chased into brickwork.	m	63		
2	22mm Ditto.	m	39		
	<u>Extra over copper pipes for brass compression fittings</u>				
3	15mm Fittings.	No	57		
4	22mm Fittings.	No	48		
	<u>Connections</u>				
	<u>Connection of new to existing pipes</u>				
5	Connection of 32mm diameter HDPE to 22mm diameter polyprop pipes including all necessary reducers, saddles, etc.	No	2		
	<u>Testing :</u>				
6	Allow for testing the preceding water supply installation in accordance with the National Building Regulations.			Item	
	<u>SOIL DRAINAGE</u>				
	<u>uPVC Pipes with solvent welded straight joints :</u>				
7	50mm Pipes.	m	56		
8	110mm Pipes.	m	11		
	<u>uPVC Pipes with solvent welded straight joints with bedding and filling in accordance with SABS 1200 :</u>				
9	110mm Pipe and excavation not exceeding 1000mm deep.	m	20		
10	110mm Pipe and excavation exceeding 1000mm not exceeding 2000mm deep.	m	20		
	<u>Extra over uPVC pipes for solvent welded fittings :</u>				
11	50mm Plain bend.	No	22		
12	110mm Plain bend.	No	5		
	Carried to Collection				R
	Section No. 3 Bill No. 10 PLUMBING AND DRAINAGE				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	50mm Access bend.	No	7
2	110mm Access bend.	No	11
<u>Gulleys, grease traps, etc.</u>			
3	100mm Diameter uPVC gulley trap with universal gulley head set flush in with finished pavement level including encasing in 15MPa concrete 100mm thick all round.	No	2
4	430 x 430 x 175mm Precast concrete gulley top, bedded over gulley in cement mortar.	No	2
<u>Testing :</u>			
5	Allow for testing the preceding sanitary plumbing installation in accordance with the National Building Regulations.		Item
<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>			
<u>Sanitary fittings, etc.</u>			
<u>White glazed vitreous china ware :</u>			
6	"Vaal 7050" or equally approved washhand basin, size 510 x 405mm, with two tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts.	No	9
7	"Vaal VAA-439016WH" or equally approved orchid back inlet 90 degree wall hung open rim pan including "Vaal 8082Z0" or equally approved floor bracket fixed as per manufactures specifications.	No	11
<u>Grade 304 stainless steel ware :</u>			
8	"Franke TU101-1830R" or equally approved 0.9mm stainless steel flat back wall mounted urinal with tiling key to sides and rear walls,vermin proof bitumastic material to back including 40mm waste outlet, concealed sparge pipe, 22 mm inlet with chrome plated conex fitting, ect.	No	2

Carried to Collection

R

Section No. 3
Bill No. 10
PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Sanitary fitting sundries</u>					
1	Satin chrome thief proof toilet roll holder, TR2, plugged to wall.	No	11		
2	Heavy-duty double-flap hinged toilet seat and cover.	No	11		
<u>Grade 304 stainless steel ware :</u>					
3	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws.	No	1		
4	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws.	No	1		
<u>Taps, valves, etc.</u>					
<u>Solid cast brass taps, valves, etc.</u>					
5	15mm Brass ball-o-stop.	No	9		
6	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	9		
7	22mm Brass non-return valve.	No	10		
8	"Kombifix UP172" or other equal approved 455mm x 770 x 80mm concealed wall hung cistern with mounting frame, water inlet connector set and water outlet connector set, cover box, adapter sockets, and fixing accessories ,ect. (Actuator elsewhere)	No	11		
9	"Delta 21" or other equal approved stainless steel front dual flush actuator plate fixed to cistern (elsewhere) with two actuator rod, frame and fixing bolts, ect.	No	11		
Carried to Collection				R	
Section No. 3					
Bill No. 10					
PLUMBING AND DRAINAGE					
PROVISIONAL BILLS OF QUANTITIES					

Waste unions, traps, etc.

Outlets, traps, etc :

1	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	9
2	38mm Butyl rubber flexible deepseal sink P-trap.	No	9

Carried to Collection

R

Section No. 3
Bill No. 10
PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 10

PLUMBING AND DRAINAGE

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

118

119

120

121

122

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 10

PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 11</u>			
	<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>PAINT ON TIMBER</u>			
	<u>Prime or oil on :</u>			
1	Backs of frames or linings not exceeding 300mm girth. <u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>	m	65	
2	Surfaces of flush panel doors.	m2	43	
3	Surfaces of frames and linings. <u>Prepare and apply two coats carbolineum on:</u>	m2	13	
4	Surfaces of exposed timber.	m2	29	
	<u>PAINT ON FIBRE-CEMENT</u>			
	<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>			
5	External fibre cement fascia and barge boarding including priming cover strips.	m2	20	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 11 PAINTWORK			
	PROVISIONAL BILLS OF QUANTITIES			

Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>EXTERNAL PLUMBING & 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>THE FOLLOWING IN STORMWATER DRAINAGE</u>			
	<u>Surface water channels</u>			
1	Reinforced concrete 25MPa V-shaped open surface water channel size 700mm wide x 80mm thick extreme and finished smooth on all exposed surfaces in untinted granolithic with angles rounded, laid to falls in lengths not exceeding 2000mm on a well rammed earth bottom, jointed in 3.1 cement mortar including shallow excavation, one layer 395 reinforced mesh, requisite formwork, ramming and depositing and levelling spoil on site where directed.	m	85	
	<u>Extra over surface water channels for :</u>			
2	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	13	
3	Extra over for widening concrete to form spreader 2000mm wide extreme for a length of 700mm and bedding hard burnt brick diffusers cast in concrete spaced at 200mm centre spacings to falls including brushing concrete between bricks.	No	3	
	<u>THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>			
	<u>Rainwater harvesting (Labour intensive)</u>			
	Carried to Collection			R
	Section No. 3			
	Bill No. 12			
	EXTERNAL PLUMBING AND DRAINAGE			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<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	1	
2	Surface trenches.	m3	11	
	<u>Excavations in earth of more difficult character</u>			
3	Extra over excavations in earth for excavation in soft rock.	m3	1	
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	7	
	<u>Risk of collapse of excavations</u>			
6	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	32	
	<u>Keeping excavations free of water</u>			
7	Allow for keeping the excavations free from water.		Item	
	<u>Filling, layerworks, etc.</u>			
8	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	5	
9	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	5	
	<u>Compaction of surfaces</u>			
10	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	8	
	Carried to Collection			R
	Section No. 3			
	Bill No. 12			
	EXTERNAL PLUMBING AND DRAINAGE			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Tests</u>				
1	Allow for Mod AASHTO density tests on filling.	No	3.00		
	<u>Reinforced concrete 25MPa in:</u>				
2	Strip foundations cast against excavated surfaces.	m3	3		
3	Surface beds cast in panels including temporary formwork.	m3	1		
	<u>Sundries</u>				
4	Float surface of concrete to a wood float finish.	m2	11		
	<u>Rough formwork (use and waste) to concrete to:</u>				
5	Edge, riser, etc not exceeding 300mm high.	m	23		
	<u>High tensile welded steel mesh reinforcement :</u>				
6	Ref: 395 cast into concrete surfaces.	m2	10		
7	Ref: 395 cast into concrete strip footings.	m2	15		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
8	One brick wall.	m2	11		
9	One brick wall in foundations. (Provisional)	m2	11		
	<u>Brickwork sundries :</u>				
10	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	65		
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
11	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	11		
12	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	4		
	Carried to Collection				R
	Section No. 3				
	Bill No. 12				
	EXTERNAL PLUMBING AND DRAINAGE				
	PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Face brick copings, lintols, cills, etc.</u>				
1	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	18		
	<u>Movement joints</u>				
2	10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	7		
3	Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.	m	13		
	<u>Ties, cramps, etc.</u>				
4	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	3		
5	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	12		
	<u>250 Micron "Gunplas USB" green polyethylene sheeting</u>				
	∴				
6	Laid flat under solid floor and over walls.	m2	11		
	<u>Rainwater tanks:</u>				
7	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet , 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	3		
8	Hole through top of tank lid for 100mm diameter pipe.	No	3		
	Carried to Collection				R
	Section No. 3				
	Bill No. 12				
	EXTERNAL PLUMBING AND DRAINAGE				
	PROVISIONAL BILLS OF QUANTITIES				

Section No. 3

Bill No. 12

EXTERNAL PLUMBING AND DRAINAGE

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

125

126

127

128

Carried Forward to Summary of Section No. 3

R

Section No. 3

Bill No. 12

EXTERNAL PLUMBING AND DRAINAGE

PROVISIONAL BILLS OF QUANTITIES

SECTION SUMMARY - SECTION NO.3 - NEW ABLUTION BLOCKS

Bill No		Page No		Amount
1	EARTHWORKS	95		
2	CONCRETE, FORMWORK AND REINFORCEMENT	98		
3	MASONRY	103		
4	WATERPROOFING	104		
5	ROOF COVERING	105		
6	CARPENTRY AND JOINERY	110		
7	IRONMONGERY	113		
8	METALWORK	116		
9	PLASTERING	117		
10	PLUMBING AND DRAINAGE	123		
11	PAINTWORK	124		
12	EXTERNAL PLUMBING AND DRAINAGE	129		
Carried to Final Summary				
Section No. 3			R	
PROVISIONAL BILLS OF QUANTITIES				

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
	<u>BILL NO.1</u>			
	<u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES, 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>PROVISIONAL SUM</u>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Provided the Provisional sum of R 125 000.00 (One Hundred and Twenty Five Thousand Rand) for the refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item		125,000.00
2	Add for profit on the above, if desired.	Item		
3	Allow for attendance on the above, if desired.	Item		
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
4	Provide the sum of R 39 000.00 (Thirty Nine Thousand Hundred Rand) for the employment of a CLO.(R 6 500.00 per month x contract period allowance)	Item		39,000.00
5	Add for profit on the above if required.	Item		
	<u>BUDGETARY ALLOWANCE</u>			
	Carried to Collection			R
	Section No. 4 Bill No. 1 PROVISIONAL SUMS, BUDGETARY ALLOWANCES,EC			
	PROVISIONAL BILLS OF QUANTITIES			

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

ROOF TRUSS STRENGTHENING

1 Allow the Budgetary Allowance of R 7 500.00 (Seven Thousand Five Hundred 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 7,500.00

REMOVAL TO THE EXISTING ABLUTIONS

2 Allow the Budgetary Allowance of R 25 000.00 (Twenty Five Thousand Rand) for the demolishing and carting away the existing ablutions on site.

Item 25,000.00

Carried to Collection

R

Section No. 4
Bill No. 1
PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 4

Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ECT.

COLLECTION

Total Brought Forward from Page No.

**Page
No**

131

132

Amount

Carried to Final Summary

R

Section No. 4

Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

PROVISIONAL BILLS OF QUANTITIES

**NATHANIEL PAMLA HIGH SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	SECTION NO.1 - PRELIMINIARIES AND GENERAL	43		
2	SECTION NO.2 - BUILDING WORKS	91		
3	SECTION NO.3 - NEW ABLUTION BLOCKS	130		
4	SECTION NO.4 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.	133		
	Sub - Total		R	
	<u>CONTINGENCY PROVISIONS</u>			
	Allow the Budgetary Provision of R 100 000.00 (One 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		100,000.00
	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	
	PROVISIONAL BILLS OF QUANTITIES			