

Item No	Quantity	Rate	Amount
<u>SECTION No. 1 - PRELIMINARIES</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>MEANING OF TERMS "TENDER / TENDERER"</u>			
Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"			
<u>PRELIMINARIES</u>			
The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"			
<u>PRICING OF PRELIMINARIES</u>			
Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities			
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Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES			

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

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

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

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

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

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

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

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

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

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

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

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

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

and

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

Item

OBJECTIVE AND PREPARATION

1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A3.0 DOCUMENTS

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

Fixed: _____ Value related: _____ Time related: _____

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1	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 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.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1 **A9.0 INDEMNITIES**

Clause 9.0

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **A10.0 WORKS INSURANCES**

Clause 10.0

Clause 10.0 is amended by the addition of the following
clauses:**10.5 Damage to the Works**

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

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10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

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- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

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

Fixed: _____ Value related: _____ Time related: _____

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1	A11.0 LIABILITY INSURANCES Clause 11.0 Fixed: _____ Value related: _____ Time related: _____	Item		
2	A12.0 EFFECTING INSURANCES Clause 12.0 Fixed: _____ Value related: _____ Time related: _____	Item		
3	A13.0 No clause	N/A		
4	A14.0 SECURITY Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 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) 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) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected: 14.2.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)			
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14.2.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within fourteen (14) **calendar days** of **commencement date**

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

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Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4

Fixed: _____ Value related: _____ Time related: _____

Item

1 A16.0 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A17.0 CONTRACT INSTRUCTIONS

Clause 17.0

Clause 17.1.11 is amended by deleting the words "and the appointment of **nominated** and **selected subcontractors**"

Fixed: _____ Value related: _____ Time related: _____

Item

3 A18.0 SETTING OUT OF THE WORKS

Clause 18.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 A19.0 ASSIGNMENT

Clause 19.0

Fixed: _____ Value related: _____ Time related: _____

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1	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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COMPLETION**1 A24.0 PRACTICAL COMPLETION**

Clause 24.0

Fixed: _____ Value related: _____ Time
related: _____

Item

2 A25.0 WORKS COMPLETION

Clause 25.0

Fixed: _____ Value related: _____ Time
related: _____

Item

3 A26.0 FINAL COMPLETION

Clause 26.0

Fixed: _____ Value related: _____ Time
related: _____

Item

4 A27.0 LATENT DEFECTS LIABILITY PERIOD

Clause 27.0

Fixed: _____ Value related: _____ Time
related: _____

Item

5 A28.0 SECTIONAL COMPLETION

Clause 28.0

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time
related: _____

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1 **A30.0 PENALTY FOR NON-COMPLETION**

Clause 30.0

Fixed: _____ Value related: _____ Time
related: _____

Item

PAYMENT2 **A31.0 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

Clause 31.5.2 is amended by replacing "14.7.1" with
"14.0 and 31.8"

Clause 31.8 is amended by replacing it with the
following two alternative clauses:

Alternative A

31.8(A) Where a **security** is selected in terms of 14.1;
the value of the **works** in terms of 31.4.1 and **materials
and goods** in terms of 31.4.2 shall be certified in full.
The value certified shall be subject to the following
percentage adjustments:

31.8(A).1 Ninety-five percent (95%) of such value in
interim **payment certificates** issued up to the date of
practical completion

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**

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

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**

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Clause 31.12 is amended by deleting the following:

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

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

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

Add the following clauses: 33.2.9 to 33.2.13:

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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

Clause 34.0

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

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

Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty-one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 35.0

Fixed: _____ Value related: _____ Time related: _____

Item

CANCELLATION

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

Clause 36.0

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

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

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

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 37.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT**

Clause 38.0

Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 39.0

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

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

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DISPUTE**1 A40.0 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS**2 A41.0 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 42.0

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

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SECTION B: JBCC PRELIMINARIES**B1.0 DEFINITIONS AND INTERPRETATION****1 B1.1 Definitions and interpretation**

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS**2 B2.1 Checking of documents**

Fixed: _____ Value related: _____ Time related: _____

Item

3 B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

4 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

5 B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

6 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

7 B2.6 Tender submission

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

Fixed: _____ Value related: _____ Time related: _____

Item

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B3.0 THE SITE

1 **B3.1** *Defined works area*

Fixed: _____ Value related: _____ Time
related: _____

Item

2 | **B3.2 Geotechnical investigation**

Fixed: _____ Value related: _____ Time
related: _____

Item

3 **B3.3** *Inspection of the site*

Fixed:_____ Value related:_____ Time
related:_____

Item

4 **B3.4 Existing premises occupied**

Fixed: _____ Value related: _____ Time
related: _____

Item

5 **B3.5 Previous work - dimensional accuracy**

Fixed: _____ Value related: _____ Time
related: _____

Item

6 **B3.6 Previous work - defects**

Fixed: _____ Value related: _____ Time
related: _____

Item

7	B3.7 Services - known
---	------------------------------

Fixed: _____ Value related: _____ Time
related: _____

Item

8	B3.8 Services - unknown
---	--------------------------------

Fixed: _____ Value related: _____ Time
related: _____

Item

9 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

Item

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1	B3.10 Articles of value Fixed:_____ Value related:_____ Time related:_____	Item	
2	B3.11 Inspection of adjoining properties Fixed:_____ Value related:_____ Time related:_____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
3	B4.1 Management of the works Fixed:_____ Value related:_____ Time related: R _____	Item	
4	B4.2 Programme for the works Fixed:_____ Value related:_____ Time related:_____	Item	
5	B4.3 Progress meetings Fixed:_____ Value related:_____ Time related:_____	Item	
6	B4.4 Technical meetings Fixed:_____ Value related:_____ Time related:_____	Item	
7	B4.5 Labour and plant records Fixed:_____ Value related:_____ Time related:_____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
8	B5.1 Samples of materials Fixed:_____ Value related:_____ Time related:_____	Item	
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1	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item
2	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item
3	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item
<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
4	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item
5	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item
6	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item
7	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item
8	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item
9	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item

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B7.0 TEMPORARY SERVICES1 **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 AMOUNTS6 **B8.1 Responsibility for prime cost amounts**Fixed: _____ Value related: _____ Time
related: _____

Item

**B9.0 ATTENDANCE ON N/S
SUBCONTRACTORS**7 **B9.1 General attendance**Fixed: _____ Value related: _____ Time
related: _____

Item

8 **B9.2 Special attendance**Fixed: _____ Value related: _____ Time
related: _____

Item

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1	<p>B9.3 Commissioning - fuel, water and electricity</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B10.0 FINANCIAL ASPECTS</u></p>	Item		
2	<p>B10.1 Statutory taxes, duties and levies</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>B10.2 Payment for preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>B10.3 Adjustment of preliminaries</p> <p>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"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>B10.4 Payment certificate cash flow</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B11.0 GENERAL</u></p>	Item		
6	<p>B11.1 Protection of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>B11.2 Protection / isolation of existing / sectionally occupied works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item
2	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item
3	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item
4	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item
5	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item
6	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item
7	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item
8	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item
9	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item

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1	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B12.0 SCHEDULE OF VARIABLES</u></p>	Item		
2	<p>B12.1 Schedule of variables</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p> <p>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</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities [2.2] The quantities are provisional</p> <p style="text-align: right;">YES</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i></p> <p style="text-align: right;">YES</p> <p>12.1.3 Interests of agents [2.4] Details:</p> <p>12.1.4 Defined works area [3.1] Details:</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES</p>	Item		R

12.1.5 **Geotechnical investigation**

[3.2] Details:

12.1.6 **Existing premises occupied**

[3.4] Specific requirements:

12.1.7 **Previous work - dimensional accuracy**

[3.5] Details:

12.1.8 **Previous work - defects**

[3.6] Details:

12.1.9 **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

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

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12.1.14 **Main notice board**

[6.5] Specific requirements:

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

12.1.15 **Subcontractors' notice board**[6.6] *A notice board is required*

Specific requirements: **NO**

12.1.16 **Water**[7.2] Option A (by **contractor**)**NO**Option B (by **employer** - free of charge)**NO**Option C (by **employer** - metered)**YES****Carried to Collection****R**

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12.1.17 Electricity**[7.3]** Option A (by **contractor**)**NO**Option B (by **employer** - free of charge)**NO**Option C (by **employer** - metered)**YES****12.1.18 Telecommunications****[7.4]** Telephone**YES**

Facsimile

YES

E-mail

YES**12.1.19 Ablution facilities****[7.5]** Option A (by **contractor**)**YES**Option B (by **employer**)**NO****12.1.20 Protection of existing/sectionally occupied works****[11.2]** Protection is required**NO****Carried to Collection****R**

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12.1.21 **Special attendance**[9.2] **Subcontractor** (1) details:**Subcontractor** (2) details:**Subcontractor** (3) details:**Subcontractor** (4) details:12.1.22 **Protection of the works**

[11.1] Specific requirements:

12.1.23 **Disturbance**

[11.5] Specific requirements:

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)

NO

Option B (calculated)

YES**Carried to Collection****R**

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12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES

12.2.3 **Additional agreed preliminaries items**

Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 C1.0 CONTRACT DRAWINGS

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 C2.0 GENERAL PREAMBLES

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

Fixed: _____ Value related: _____
Time related: _____

Item

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1 **C3.0 TRADE NAMES**

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

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

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

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

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C4.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.4 ACCESS TO CONDOMS

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

Fixed: _____ Value related: _____

Time related: _____

Item

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C4.5 MONITORING

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

Fixed: _____ Value related: _____
 Time related: _____

Item

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

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PROVISIONAL BILLS OF QUANTITIES**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION No.2 - OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCHOOL</u>			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC (PROVISIONAL)</u>			
	<u>DEMOLITIONS</u>			
	<u>Taking out and removing sanitary fittings, etc</u>			
1	Enlarge existing circular opening through 255mm thick slab from 200mm to 450mm diameter.	No	3	
2	"Atlas Plastics 237 AP" VIP 350 Pit pedestal complete with integral flap four times plugged fixed to floor with 6 x 75mm masonry anchors.	No	3	
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>			
	<u>Plastic sanitaryware</u>			
3	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3	
	<u>Satin Grey Plastics or equal approved</u>			
4	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	9	
	<u>STORMWATER CHANNELS</u>			
	<u>Excavation not exceeding 2m deep</u>			
5	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	42	
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	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
1	Off site to a dumping site to be found by the Contractor.	m3	42	
	<u>Filling supplied by the contractor under channels</u>			
2	G7 Base course material compacted to 98% Mod AASHTO density	m3	21	
3	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	21	
	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>			
4	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	200	
5	Extra for 700mm angle	No	13	
6	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2	
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
7	Trenches.	m3	13	
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	<u>Extra over all excavations for carting away:</u>				
1	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	8		
	<u>Risk of collapse of excavations:</u>				
2	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	25		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
3	Backfilling to trenches, holes, etc.	m3	5		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
4	Under footings.	m3	3		
	<u>Compaction of surfaces</u>				
5	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	25		
	<u>25 Mpa/19mm Concrete</u>				
6	Strip footings.	m3	5		
	<u>Test blocks:</u>				
7	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Reinforcement (Provisional)</u>				
8	High tensile steel reinforcement bars to structural concrete work.	t	0.10		
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BRICKWORK IN FOUNDATIONS.

Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):

1	One brick walls.	m2	15
---	------------------	----	----

BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):

2	One brick walls.	m2	15
---	------------------	----	----

Brickwork reinforcement:

3	230mm Wide reinforcement built in horizontally.	m	50
---	---	---	----

4	Ditto but in foundations.	m	50
---	---------------------------	---	----

FACE BRICK

"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):

5	One brickwall faced on both sides.	m2	15
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Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:

6	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	50
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THE FOLLOWING IN DISABLED ACCESSSCREEN WALL

Carried to Collection

R

Section No. 2

Bill No. 1

OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCH

TMT-DBE-2324-SAFEOS-ECCL145

PROVISIONAL BILLS OF QUANTITIES

	<u>Excavation in earth not exceeding 2m deep:</u>				
1	Trenches.	m3	11		
	<u>Extra over all excavations for carting away:</u>				
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	4		
	<u>Risk of collapse of excavations:</u>				
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	30		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
4	Backfilling to trenches, holes, etc.	m3	6		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
5	Under footings.	m3	2		
	<u>Compaction of surfaces</u>				
6	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	15		
	<u>25 Mpa/19mm Concrete</u>				
7	Strip footings.	m3	5		
	<u>Test blocks:</u>				
8	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Reinforcement (Provisional)</u>				
9	High tensile steel reinforcement bars to structural concrete work.	t	0.21		
Carried to Collection				R	
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PROVISIONAL BILLS OF QUANTITIES					

BRICKWORK IN FOUNDATIONS.

Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):

1	One brick walls.	m2	8
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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):

2	One brick walls.	m2	45
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Brickwork reinforcement:

3	230mm Wide reinforcement built in horizontally.	m	180
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4	Ditto but in foundations.	m	60
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FACE BRICK

"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):

5	One brickwall faced on both sides.	m2	45
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Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:

6	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	30
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ACCESS RAMPS

Excavation not exceeding 2m deep

7	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9
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Section No. 2

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OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCH

TMT-DBE-2324-SAFEOS-ECCL145

PROVISIONAL BILLS OF QUANTITIES

	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
1	Off site to a dumping site to be found by the Contractor.	m3	8		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
2	G7 Base course material compacted to 98% Mod AASHTO density	m3	4		
3	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	4		
	<u>Coarse river sand filling supplied by the contractor:</u>				
4	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
5	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	27		
	<u>Prescribed density tests on filling:</u>				
6	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
7	Ramps, Landings, etc.	m3	10		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
8	Surface beds, slabs, etc to falls and currents.	m2	27		
	<u>Test blocks:</u>				
9	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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TMT-DBE-2324-SAFEOS-ECCL145					
PROVISIONAL BILLS OF QUANTITIES					

	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
1	12mm Joints not exceeding 300mm high.	m	36		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
2	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	36		
	<u>Fabric reinforcement:</u>				
3	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
	<u>Waterproofing under Surface beds</u>				
4	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	27		
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
	<u>Site clearance</u>				
5	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		
	<u>Fencing</u>				
6	Six strands of 4mm galvanised straining wires (evenly spaced) secured to straining posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to and including 12mm diameter straining eye bolts.	m	200		
7	Fencing formed of 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence 1.8m high with vertical wires facing outwards secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (elsewhere).	m	200		
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1	500mm Diameter flat wrap of galvanised razor barbed tape wire fixed vertically to and including two rows of double stranded barbed wire to top of security fence and secured to straining wire (elsewhere) with and including 2.5mm diameter galvanised binding wire at 300mm centres.	m	200		
	<u>Hot dipped galvanised steel posts, etc.</u>				
2	60mm Diameter x 2.5mm wall thickness intermediate fencing post, 2700mm long fitted with pressed steel mushroom cap, the post fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base including all necessary excavations, backfilling, concrete, etc.	No	50		
3	100mm Diameter x 3mm wall thickness end or corner post 2700mm long fitted with pressed steel mushroom cap and one 60mm diameter x 2mm wall thickness raking stay, the post and stay fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	6		
4	100mm Diameter x 3mm wall thickness intermediate straining or corner post 2700mm long fitted with pressed steel mushroom cap, but fitted with two 60mm diameter x 2mm wall thickness galvanised steel raking stays, the post and stays fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	10		
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PROVISIONAL BILLS OF QUANTITIES					

<u>Hot dipped galvanised steel gates</u>		
1	Security fence single gate, size 1000mm wide x 1800mm high, formed of 50mm diameter nominal bore x 3.25mm wall thickness mild steel pipe all round with mitred and welded angles and diagonal cross brace, 146 x 280mm hand access opening formed of 40 x 40 x 2.5mm square section framing welded on, the gate covered the gate covered with 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and fitted with three 24mm diameter x 300mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost.	No 1
<u>Sundries</u>		
2	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3 1
3	25mm Diameter x 100mm long galvanised steel dropbolt keep, cast flush in surface bed, including forming necessary mortice and grouting in.	No 1
4	Mass concrete (15MPa) base, size 200 x 200 x 200mm deep, with 25mm diameter x 100mm galvanised sleeve cast in flush with ground level, to receive towerbolt (elsewhere), including all necessary excavations, etc.	No 1
5	51mm brass padlock with stainless steel shackle.	No 1
<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>		
<u>Excavation not exceeding 2m deep</u>		
6	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3 60
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
7	Off site to a dumping site to be found by the Contractor.	m3 60
Carried to Collection		
Section No. 2 Bill No. 1 OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCH TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES		

	<u>Filling supplied by the contractor under driveways</u>				
1	G7 Base course material compacted to 98% Mod AASHTO density	m3	30		
2	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	30		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
3	Under floors,etc.	m2	200		
	<u>Prescribed density tests on filling:</u>				
4	In-situ dry density test.	No	8		
	<u>150-175mm diameter bollards</u>				
5	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	12		
	<u>BUDGETARY ALLOWANCES</u>				
6	Allow the Budgetary Allowance of R 30 000.00 (Thirty Thousand Rand) for the minor repairs to newly built VIP toilets, to be detailed at a later stage.		Item	30,000.00	
7	Allow the Budgetary Allowance of R 25 000.00 (Twenty Five Thousand Rand) for the landscaping around the site detailed and specified at a later stage.		Item	25,000.00	
	<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>				
	<u>Portable toilets</u>				
8	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	6		
9	Servicing and maintain the ten portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	24		
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TMT SAFE OMITTED SCOPE PROGRAMME

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Section No. 2

Bill No. 1

OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCHOOL

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Bill No. 1

OMITTED SCOPE - EMAZIZINI SENIOR PRIMARY SCH

TMT-DBE-2324-SAFEOS-ECCL145**PROVISIONAL BILLS OF QUANTITIES**

	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
1	Surface trenches.	m3	72		
	<u>Excavations in earth of more difficult character</u>				
2	Extra over excavations in earth for excavation in soft rock.	m3	7		
3	Extra over excavations in earth for excavation in hard rock.	m3	4		
	<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	40		
	<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	163		
	<u>Keeping excavations free of water</u>				
6	Allow for keeping the excavations free from water.		Item		
	<u>Filling</u>				
7	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	32		
	<u>CONCRETE</u>				
	<u>Mass concrete 10MPa (19mm stone) in:</u>				
8	Blasting beneath bases, strip footings, etc cast against excavated surfaces.	m3	4		
	<u>Reinforced concrete 30MPa (19mm stone) in:</u>				
9	Strip foundations cast against excavated surfaces.	m3	22		
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Section No. 3 Bill No. 1 OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES					

1	Filling to cavity of hollow brick wall.	m3	7
	<u>Test blocks and testing</u>		
2	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	5
	<u>REINFORCEMENT (PROVISIONAL)</u>		
	<u>Bar reinforcement</u>		
	<u>Mild steel rod reinforcement to structural concrete work</u>		
3	10mm Diameter bars.	t	0.269
	<u>High tensile rod reinforcement to structural concrete work</u>		
4	10mm Diameter bars.	t	0.806
5	12mm Diameter bars.	t	0.806
6	16mm Diameter bars.	t	0.806
	<u>FOUNDATION BRICKWORK (PROVISIONAL)</u>		
	<u>Walls and linings in stock bricks in 5:1 cement mortar :</u>		
7	One brick wall.	m2	8
8	270mm Thick cavity wall comprising one half brick skin and one brick on edge skin tied together with and including galvanised butterfly wire ties at the minimum rate of 9/m2.	m2	53
	<u>Closing cavities</u>		
9	Build vertical 50mm wide cavity solid.	m	8
	<u>Reinforcement to brickwork</u>		
10	Galvanised brick reinforcement 75mm wide built horizontally into brickwork.	m	789
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1	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	24
<u>FACE BRICKWORK</u>			
<u>"Rustgold FBS/Qunu Travertine" or other equal and approved FBS 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	32
<u>Fair cutting to face brickwork</u>			
3	Fair cutting to form squint quoin or birdsmouth angle.	m	16
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Walls and linings in stock bricks in 5:1 cement mortar :</u>			
4	One brick wall.	m2	24
5	270mm Thick cavity wall comprising one half brick skin and one brick on edge skin tied together with and including galvanised butterfly wire ties at the minimum rate of 9/m2.	m2	80
<u>Closing cavities</u>			
6	Build vertical 50mm wide cavity solid.	m	8
<u>Reinforcement to brickwork</u>			
7	Galvanised brick reinforcement 75mm wide built horizontally into brickwork.	m	72
8	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	475
<u>EXTERNAL FACE BRICKWORK</u>			
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Section No. 3 Bill No. 1 OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES			

	<u>"Rustgold FBS/Qunu Travertine" or other equal and approved FBS quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
1	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	162		
	<u>Fair cutting to face brickwork</u>				
2	Fair cutting to form squint quoin or birdsmouth angle.	m	10		
	<u>Face brick copings, lintols, cills, etc.</u>				
3	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	80		
	<u>PLUMBING AND DRAINAGE</u>				
4	50mm Diameter PVC pipe 230mm long built through brick wall.	No	5		
5	50mm Diameter PVC pipe 280mm long built through concrete filled cavity brick wall.	No	27		
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
	<u>Site clearance</u>				
6	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	300		
	<u>Fencing</u>				
7	Six strands of 4mm galvanised straining wires (evenly spaced) secured to straining posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to and including 12mm diameter straining eye bolts.	m	300		
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PROVISIONAL BILLS OF QUANTITIES					

1	Fencing formed of 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence 1.8m high with vertical wires facing outwards secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (elsewhere).	m	300		
2	500mm Diameter flat wrap of galvanised razor barbed tape wire fixed vertically to and including two rows of double stranded barbed wire to top of security fence and secured to straining wire (elsewhere) with and including 2.5mm diameter galvanised binding wire at 300mm centres.	m	300		
	<u>Hot dipped galvanised steel posts, etc.</u>				
3	60mm Diameter x 2.5mm wall thickness intermediate fencing post, 2700mm long fitted with pressed steel mushroom cap, the post fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base including all necessary excavations, backfilling, concrete, etc.	No	78		
4	100mm Diameter x 3mm wall thickness end or corner post 2700mm long fitted with pressed steel mushroom cap and one 60mm diameter x 2mm wall thickness raking stay, the post and stay fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	12		
5	100mm Diameter x 3mm wall thickness intermediate straining or corner post 2700mm long fitted with pressed steel mushroom cap, but fitted with two 60mm diameter x 2mm wall thickness galvanised steel raking stays, the post and stays fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	4		
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OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC					
TMT-DBE-2324-SAFEOS-ECCL145					
PROVISIONAL BILLS OF QUANTITIES					

<u>Hot dipped galvanised steel gates</u>				
1	Security fence single gate, size 1000mm wide x 1800mm high, formed of 50mm diameter nominal bore x 3.25mm wall thickness mild steel pipe all round with mitred and welded angles and diagonal cross brace, 146 x 280mm hand access opening formed of 40 x 40 x 2.5mm square section framing welded on, the gate covered the gate covered with 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and fitted with three 24mm diameter x 300mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost.	No	1	
<u>Sundries</u>				
2	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	1	
3	25mm Diameter x 100mm long galvanised steel dropbolt keep, cast flush in surface bed, including forming necessary mortice and grouting in.	No	1	
4	Mass concrete (15MPa) base, size 200 x 200 x 200mm deep, with 25mm diameter x 100mm galvanised sleeve cast in flush with ground level, to receive towerbolt (elsewhere), including all necessary excavations, etc.	No	1	
5	51mm brass padlock with stainless steel shackle.	No	1	
<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>				
<u>Excavation not exceeding 2m deep</u>				
6	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	60	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
7	Off site to a dumping site to be found by the Contractor.	m3	60	
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OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC				
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PROVISIONAL BILLS OF QUANTITIES				

	<u>Filling supplied by the contractor under driveways</u>			
1	G7 Base course material compacted to 98% Mod AASHTO density	m3	30	
2	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	30	
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>			
3	Under floors,etc.	m2	200	
	<u>Prescribed density tests on filling:</u>			
4	In-situ dry density test.	No	8	
	<u>150-175mm diameter bollards</u>			
5	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	12	
	<u>BUDGETARY ALLOWANCES</u>			
6	Allow the Budgetary Allowance of R 30 000.00 (Thirty Thousand Rand) for the minor repairs to newly built VIP toilets, to be detailed at a later stage.		Item	30,000.00
7	Allow the Budgetary Allowance of R 25 000.00 (Twenty Five Thousand Rand) for the landscaping around the site detailed and specified at a later stage.		Item	25,000.00
	<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>			
	<u>Portable toilets</u>			
8	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	6	
9	Servicing and maintain the ten portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	24	
	Carried to Collection			
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	OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC			
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TMT SAFE OMITTED SCOPE PROGRAMME

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Section No. 3

Bill No. 1

OMITTED SCOPE - BETHEL JUNIOR SECONDARY SCHOOL

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Section No. 3

Bill No. 1

OMITTED SCOPE - BETHEL JUNIOR SECONDARY SC

TMT-DBE-2324-SAFEOS-ECCL145**PROVISIONAL BILLS OF QUANTITIES**

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3	SECTION NO.3 - BETHEL JUNIOR SECONDARY SCHOOL	66	
	Sub-Total		R
	<u>CONTINGENCY PROVISIONS</u>		
	<p>The Tenderer is to allow hereunder for 10 (Ten) percent of the Nett Builders Work Sub-Total to be used as a Budgetary Provision 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.</p>	%	
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R
	Sub - Total		R
	Carried to Form of Tender		R
	TMT-DBE-2324-SAFEOS-ECCL145 PROVISIONAL BILLS OF QUANTITIES		