

Item No		Quantity	Rate	Amount
	SECTION No. 1			
	BILL No. 1PRELIMINARIES			
	BUILDING AGREEMENT AND PRELIMINARIES			
	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".			
	PRICING OF PRELIMINARIES			
	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.			
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT			
	DEFINITIONS			
A	A1.0 DEFINITIONS AND INTERPRETATION			
	Clause 1.0			
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Clause 1.1 Definition of "**Commencement Date**" is added:

"**COMMENCEMENT DATE**" means the date of site handover.

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 **date that possession of the site is given to the contractor** and ending on the date of **practical completion**.

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

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

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

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

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THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

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

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

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

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

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

"**SECURITY**" means the form of security provided by the **employer** of **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:_____

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<u>OBJECTIVE AND PREPARATION</u>				
B	A2.0 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0 Fixed:_____ Value related:_____ Time related:_____	Item		
C	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.			
D	Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer". Fixed:_____ Value related:_____ Time related:_____	Item		
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E	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		
F	A5.0 EMPLOYER'S AGENTS Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8 Fixed:_____ Value related:_____ Time related:_____	Item		
G	A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed:_____ Value related:_____ Time related:_____	Item		
H	A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification. Fixed:_____ Value related:_____ Time related:_____	Item		
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I	A8.0 WORKS RISK Clause 8.0 Fixed:_____ Value related:_____ Time related:_____	Item		
J	A9.0 INDEMNITIES Clause 9.0 Fixed:_____ Value related:_____ Time related:_____	Item		
K	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.			
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- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material 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.

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- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**.
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**.
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequately 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**.

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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.

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.

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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

L A11.0 LIABILITY INSURANCES

Clause 11.0

Fixed:_____ Value related:_____ Time related:_____

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M	A12.0 EFFECTING INSURANCES			
	Clause 12.0 Fixed:_____ Value related:_____ Time related:_____	Item		
N	A13.0 No clause			
O	A14.0 SECURITY			
	Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT). 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.			
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14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty one (21) **calendar days** from **commencement date**.

14.3.2 Within twenty one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**.

14.3.3 Within twenty one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**.

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**.

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

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

14.4 Not Applicable

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**.

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

Fixed:_____ Value related:_____ Time related:_____

EXECUTION

P **A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 Fixed:_____ Value related:_____ Time related:_____	Item		
Q	A16.0 ACCESS TO THE WORKS Clause 16.0 Fixed:_____ Value related:_____ Time related:_____	Item		
R	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		
S	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed:_____ Value related:_____ Time related:_____	Item		
T	A19.0 ASSIGNMENT Clause 19.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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U	A20.0 NOMINATED SUB-CONTRACTORS 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		
V	A21.0 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No Clause Fixed:_____ Value related:_____ Time related:_____	Item		
W	A22.0 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item		
X	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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	<u>COMPLETION</u>		
Y	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed:_____ Value related:_____ Time related:_____	Item	
Z	A25.0 WORKS COMPLETION Clause 25.0 Fixed:_____ Value related:_____ Time related:_____	Item	
AA	A26.0 FINAL COMPLETION Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 Fixed:_____ Value related:_____ Time related:_____	Item	
AB	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed:_____ Value related:_____ Time related:_____	Item	
AC	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed:_____ Value related:_____ Time related:_____	Item	
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AD	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:_____			
AE	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>PAYMENT</u>			
AF	A31.0 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0 Clause 31.5.2 is amended by replacing "14.7.1" with "14.0" Clause 31.8 as amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion.	Item		
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31.8(A).2 Ninety seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**.

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

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

Alternative B

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

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

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

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

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

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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. Payment shall be subject to the submission of a monthly contractors report by the contractor. Fixed:_____ Value related:_____ Time related:_____	Item		
AG	A32.0 ADJUSTMENT TO THE CONTRACT VALUE Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor" Fixed:_____ Value related:_____ Time related:_____	Item		
AH	A33.0 RECOVERY OF EXPENSE AND LOSS Clause 33.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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AI	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 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" 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	
AJ	A35.0 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed:_____ Value related:_____ Time related:_____	Item	
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	<u>CANCELLATION</u>			
AK	A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT Clause 36.0 Clause 36.1 is amended by the addition of the following clauses: 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract. 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa. 36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer". Clause 36.0 is amended by the addition of the following clause: 36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever. Fixed:_____ Value related:_____ Time related:_____	Item		
AL	A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE Clause 37.0 Carried to Collection Section 1 Bill 1 Preliminaries		R	

	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: 37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever. Fixed:_____ Value related:_____ Time related:_____	Item		
AM	A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT Clause 38.0 Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)" Clause 38.0 is amended by the addition of the following clause: 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever Fixed:_____ Value related:_____ Time related:_____	Item		
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AN	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:_____ <u>DISPUTE</u>			
AO	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 cost concerning the mediation and equally share the costs of the mediator and related costs. Fixed:_____ Value related:_____ Time related:_____ <u>SUBSTITUTE PROVISIONS</u>	Item		
AP	A41.0 STATE CLAUSES Clause 41.0 Fixed:_____ Value related:_____ Time related:_____ Carried to Collection Section 1 Bill 1 Preliminaries	Item		R

CONTRACT VARIABLES

THE SCHEDULE (C1.2 CONTRACT DATA)

AQ **A42.0 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2
Contract Data for variables pertaining to this
contract.

Fixed:_____ Value related:_____ Time
related:_____

Item

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	SECTION B: JBCC PRELIMINARIES			
	B1.0 DEFINITIONS AND INTERPRETATION			
AR	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			
AS	B2.1 Checking of documents Fixed:_____ Value related:_____ Time related:_____	Item		
AT	B2.2 Provisional bills of quantities Fixed:_____ Value related:_____ Time related:_____	Item		
AU	B2.3 Availability of construction documentation Fixed:_____ Value related:_____ Time related:_____	Item		
AV	B2.4 Interests of agents Fixed:_____ Value related:_____ Time related:_____	Item		
AW	B2.5 Priced documents Fixed:_____ Value related:_____ Time related:_____	Item		
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AX	B2.6 Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)". Fixed:_____ Value related:_____ Time related:_____ <u>B3.0 THE SITE</u>				
AY	B3.1 Defined works area Fixed:_____ Value related:_____ Time related:_____	Item			
AZ	B3.2 Geotechnical investigation Fixed:_____ Value related:_____ Time related:_____	Item			
BA	B3.3 Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission. Fixed:_____ Value related:_____ Time related:_____	Item			
BB	B3.4 Existing premises occupied Fixed:_____ Value related:_____ Time related:_____	Item			
BC	B3.5 Previous work - dimensional accuracy Fixed:_____ Value related:_____ Time related:_____	Item			
BD	B3.6 Previous work - defects Fixed:_____ Value related:_____ Time related:_____	Item			
	Carried to Collection			R	
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BE	B3.7 Services - known				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BF	B3.8 Services - unknown				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BG	B3.9 Protection of trees				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BH	B3.10 Articles of value				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BI	B3.11 Inspection of adjoining properties				
	Fixed:_____ Value related:_____ Time related:_____	Item			
	<u>B4.0 MANAGEMENT OF CONTRACT</u>				
BJ	B4.1 Management of the works				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BK	B4.2 Programme for the works				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BL	B4.3 Progress meetings				
	Fixed:_____ Value related:_____ Time related:_____	Item			
BM	B4.4 Technical meetings				
	Fixed:_____ Value related:_____ Time related:_____	Item			
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BN	B4.5 Labour and plant records Fixed:_____ Value related:_____ Time related:_____ <u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>	Item		
BO	B5.1 Samples of materials Fixed:_____ Value related:_____ Time related:_____ B5.2 Workmanship samples Fixed:_____ Value related:_____ Time related:_____ B5.3 Shop drawings Fixed:_____ Value related:_____ Time related:_____ B5.4 Compliance with manufacturers' instructions Fixed:_____ Value related:_____ Time related:_____ <u>B6.0 TEMPORARY WORKS AND PLANT</u>	Item		
BP		Item		
BQ		Item		
BR		Item		
BS	B6.1 Deposits and fees Fixed:_____ Value related:_____ Time related:_____ B6.2 Enclosure of the works Fixed:_____ Value related:_____ Time related:_____ B6.3 Advertising Fixed:_____ Value related:_____ Time related:_____	Item		
BT		Item		
BU		Item		
Carried to Collection			R	
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BV	B6.4 Plant, equipment, sheds and offices Fixed:_____ Value related:_____ Time related:_____	Item		
BW	B6.5 Main notice board Fixed:_____ Value related:_____ Time related:_____	Item		
BX	B6.6 Subcontractors' notice board Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B7.0 TEMPORARY SERVICES</u>			
BY	B7.1 Location Fixed:_____ Value related:_____ Time related:_____	Item		
BZ	B7.2 Water Fixed:_____ Value related:_____ Time related:_____	Item		
CA	B7.3 Electricity Fixed:_____ Value related:_____ Time related:_____	Item		
CB	B7.4 Telecommunication facilities Fixed:_____ Value related:_____ Time related:_____	Item		
CC	B7.5 Ablution facilities Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	
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	Bill 1			
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[illegible]

CJ	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 "in his priced bills of quantities / lump sum document submitted with his tender offer". Fixed:_____ Value related:_____ Time related:_____	Item		
CK	B10.4 Payment certificate cash flow Fixed:_____ Value related:_____ Time related:_____ <u>B11.0 GENERAL</u>	Item		
CL	B11.1 Protection of the works Fixed:_____ Value related:_____ Time related:_____	Item		
CM	B11.2 Protection / isolation of existing / sectionally occupied works Fixed:_____ Value related:_____ Time related:_____	Item		
CN	B11.3 Security of the works Fixed:_____ Value related:_____ Time related:_____	Item		
CO	B11.4 Notice before covering work Fixed:_____ Value related:_____ Time related:_____	Item		
CP	B11.5 Disturbance Fixed:_____ Value related:_____ Time related:_____	Item		
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CQ	B11.6 Environmental disturbance Fixed:_____ Value related:_____ Time related:_____	Item		
CR	B11.7 Works cleaning and clearing Fixed:_____ Value related:_____ Time related:_____	Item		
CS	B11.8 Vermin Fixed:_____ Value related:_____ Time related:_____	Item		
CT	B11.9 Overhand work Fixed:_____ Value related:_____ Time related:_____	Item		
CU	B11.10 Instruction manuals and guarantees Fixed:_____ Value related:_____ Time related:_____	Item		
CV	B11.11 As built information Fixed:_____ Value related:_____ Time related:_____	Item		
CW	B11.12 Tenant installations Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B12.0 SCHEDULE OF VARIABLES</u>			
CX	B12.1 Schedule of variables Fixed:_____ Value related:_____ Time related:_____	Item		
Carried to Collection			R	
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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 italicized in [] brackets.

12.1 PRE-TENDER INFORMATION

12.1.1 *Provisional Bills of Quantities*

[2.2] *The quantities are provisional*

NO

12.1.2 *Availability of construction documentation*

[2.3] *Construction documentation is complete*

YES

12.1.3 *Interest of agents*

[2.4] Details:

NIL

12.1.4 *Defined works area*

[3.1] Details:

The work area will be pointed out by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations.

12.1.5 *Geotechnical investigation*

[3.2] Details:

No trial holes, soils investigation, etc have been carried out.

12.1.6 *Existing premises occupied*

[3.4] Specific requirements:

The premises will NOT be in use and occupied during the course of this contract.

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12.1.7 Previous work - dimensional accuracy				
[3.5] Details:				
N/A				
12.1.8 Previous work - defects				
[3.6] Details:				
N/A				
12.1.9. Services - known				
[3.7] Details:				
Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediatly and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent .				
12.1.10 Protection of trees				
[3.9] Specific requirements:				
Only those trees and shrubs indicated as such on the drawings shall be removed or cut down. The remainder of the trees and shrubs shall be left undamaged.				
12.1.11 Inspection of adjoining properties				
[3.11] Specific requirements:				
N/A				
12.1.12 Enclosure of the works				
[6.2] Specific requirements:				
The contractor shall enclose the areas of work and mark areas with danger tape.				
Carried to Collection				
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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.*

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:

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12.1.16	Water	[7.2] Option A (by contractor)	YES				
		Option B (by employer - free of charge)	NO				
		Option C (by employer - metered)	NO				
12.1.17	Electricity	[7.3] Option A (by contractor)	YES				
		Option B (by employer - free of charge)	NO				
		Option C (by employer - metered)	NO				
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				
12.1.21	Special attendance	[9.2] Subcontractor (1) details:					
		Subcontractor (2) details:					
		Subcontractor (3) details:					
		Subcontractor (4) details:					
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[illegible]

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.

CY C1 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

CZ C2 GENERAL PREAMBLES

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, 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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DA	C3 TRADE NAMES Wherever a trade name for any product has been described in the bills of quantities / lump sum documents, 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:_____			
DB	C4 IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable). Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection Section 1 Bill 1 Preliminaries		R	

DC	C5 VIEWING THE SITE IN SECURITY AREAS The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes Fixed:_____ Value related:_____ Time related:_____	N/A		
DD	C6 COMMENCEMENT OF WORKS IN SECURITY AREAS As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account. Fixed:_____ Value related:_____ Time related:_____	N/A		
DE	C7 ENTRANCE PERMITS TO SECURITY AREAS As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer. Fixed:_____ Value related:_____ Time related:_____	N/A		
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DF	C8 SECURITY CHECK OF PERSONNEL	N/A	R
DG	C9 PROHIBITION ON TAKING OF PHOTOGRAPHS		
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works. Fixed:_____ Value related:_____ Time related:_____	N/A	R
	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister. The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959. Fixed:_____ Value related:_____ Time related:_____		
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C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW1544) 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 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.

DH **C10.1 AWARENESS CHAMPION**

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

Fixed:_____ Value related:_____ Time related:_____

Item

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DI	C10.2 AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification. Fixed:_____ Value related:_____ Time related:_____				
		Item			
DJ	C10.3 POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification. Fixed:_____ Value related:_____ Time related:_____				
		Item			
DK	C10.4 ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification. Fixed:_____ Value related:_____ Time related:_____				
		Item			
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DL **C10.5 MONITORING**

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

Fixed:_____ Value related:_____ Time related:_____

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C11 OCCUPATIONAL HEALTH AND SAFETY ACT

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**.

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

Fixed:_____ Value related:_____ Time related:_____

Item

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DM	C12 REPORTING BY CONTRACTOR The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided. Fixed:_____ Value related:_____ Time related:_____			
DN	C13 LOCAL LABOUR AND LOCAL BUILDING MATERIALS	Item		
DO	C13.1 GENERAL The Contractor's attention is drawn to the Labour Intensive Methods and requirements incorporated in the tender documents.(C1.3). All requirements of the aforementioned are to be priced hereunder; no additional items or extras to the contract in this regard will be entertained. Fixed:_____ Value related:_____ Time related:_____	Item		Carried to Collection R
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DP	C13.2 LOCAL BUILDING MATERIALS Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that: (a) Such materials comply in all respects with the specific requirements of PW371 specification. (b) The availability of such materials shall not adversely affect the desired progress of the specific works. (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof. Fixed:_____ Value related:_____ Time related:_____	Item		
DQ	C13.3 TRAINING ALLOWANCE Training allowance paid to targeted labour in terms of formal training. 400 (Four Hundred) Person Days x R65,00 per Person Day. Fixed:_____ Value related:_____ Time related:_____	Item		
DR	C13.4 TRANSPORT AND ACCOMMODATION Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site. Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection Section 1 Bill 1 Preliminaries		R	

DS

C13.5 ADMINISTRATION

Extra for the administration of payment of training allowance to targeted labour.

Fixed:_____ Value related:_____ Time related:_____

Item

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TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

[illegible]

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

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TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

[illegible]

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

Item No	Quantity	Rate	Amount
SECTION No. 1			
BILL No. 2 HEALTH AND SAFETY			
MODEL PREAMBLES			
PREAMBLES The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
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Healthy and Safety			

SUPPLEMENTARY PREAMBLES

Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.

The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.

Prior to pricing, the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993. Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.

The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.

The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

A Preparation of the contractors site specific health and safety plan and Safety File.

Item

Carried to Collection

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Section 1
Bill 2
Healthy and Safety

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

B	Submission of Health and Safety File.		Item		
C	Principal contractor's initial obligations in respect of the occupational health and safety act and construction regulations.		Item		
D	Principal contractor's time related obligations in respect of the occupational health and safety act and construction regulations for the entire construction period.		Item		
E	Provision of full time Health and Safety Officer for the entire construction period.		Item		
F	Induction training for all personnel.	No	1		
G	Provision of first aid boxes.	No	1		
H	Sans approved weld mesh type temporary barrier fencing, 1.8m high covered with a net fixed to and including 100mm diameter gum poles set securely, minimum 300mm deep in ground at maximum 3m spacing including excavation, backfilling, etc.	m	200		
I	Extra over mesh fence for pedestrian gate size 1.8 x 1.8m high.	No	1		
	<u>Provision for Personal Protective Equipment and Protective Clothing:</u>				
J	Reflective vests.	No	10		
K	Hard hats.	No	10		
L	Protective foot wear.	No	10		
M	Ear plugs.	No	50		
N	Dust masks..	No	200		
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**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

Costs of Medical Certificates and Medical Surveillance:

O	Initial (Baseline) medical examinations for all personnel	No	1
P	Exit examinations for all personnel.	No	1

Noise Monitoring:

Q	Establishment of noise zones	No	2
R	Audiograms	No	10

C16: Covid 19 Compliance Measures:

S	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements. .		
		Item	

Carried to Collection

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Healthy and Safety

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

[illegible]

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

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THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION No. 2 BILL No. 1 ALTERATIONS (PROVISIONAL)</u>			
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".			
<u>ALTERATIONS</u>			
Tenderers are advised to visit the site prior to tendering and satisfy themselves as to the nature and extent of the work to be done, also to examine the condition of all existing buildings as no claim will be entertained on the grounds of ignorance of the conditions under which the work was to be executed.			
Old materials from alterations except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same.			
Old materials from alterations except where described to be re-used or handed over, as well as rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site and pricing thereof must be included in the Contractor's rates as no extras in this regard will be entertained. Items described as "removed" shall mean removed from the site.			
None of the old materials are to be used for new work except where specifically described as being set aside for re-use.			
Where certain materials or articles from alterations are described as to be handed over by the Contractor to the Principal Agent, such material or articles shall be properly stored by the Contractor until handing over thereof. The Contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and			
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he will be held liable to the Client for the full replacement value thereof which amount will be deducted from any monies due to the Contractor.

The Contractor is to take dimensions affecting the existing buildings on the site as he will be solely responsible for all new work being to the correct sizes.

The Principal Agent is to be notified immediately of any discrepancies between the drawings and the existing work and all work affected by these discrepancies is to be suspended until such time as the Principal Agent shall authorise its continuance.

Before commencing the alterations the Contractor shall comply with any regulations in force in respect of rodent extermination and he shall obtain the requisite Rodent Extermination Clearance Certificate and pay any fees in connection therewith.

Tenderers are advised that the adjoining buildings will be in occupation during the time that the works are in progress and due allowance must be made for the work being carried out at such times and in such a manner as will least interfere with the general routine of the occupants.

All floors, doors, windows, fittings, electrical and mechanical plant, etc., must be adequately protected from damage during the progress of the works and any damage resulting from the building work must be made good by the Contractor at his own expense.

The Contractor will be held solely responsible for any injury to persons, damage to property and for the safety of the structure throughout the duration of the Contract and must make good at his own expense any damage that may occur.

Any existing works damaged or disturbed through alterations, etc. shall be made good with all necessary new materials to match existing and left complete and perfect in every respect to the satisfaction of the Principal Agent.

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Any temporary tarpaulins, dust and weatherproof screens and barriers that may be necessary for the protection of the Works must be supplied, erected and maintained during the progress of the Works, all to the satisfaction of the Principal Agent and be removed on completion.

All shoring, needling, or strutting required to ensure the stability of the premises, must be supplied, erected and maintained during the progress of the Works and removed on completion, or when directed. The shores, needles or struts must be constructed from suitable and substantial timber and any other suitable materials necessary and must be to the satisfaction of the Principal Agent.

Wherever and whenever necessary, or at the direction of the Principal Agent, the works must be well watered with a jet or spray from a hose sufficient to prevent any nuisance from dust.

The Contractor must not remove or interfere with any furniture, furnishings, fittings, or similar moveable articles belonging to the Client and must give adequate notice to the Principal Agent if the removal of any such articles from parts of the building to be altered are necessary, so that they may have same removed before the Contractor commences work.

The Contractor must conform to the instructions of the Principal Agent in carrying out any portion of the work, which in his opinion requires expediting, and the Contractor must give priority to such work as and when directed.

Prices

Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Principal Agent and all rubbish, debris, etc., arising from the demolitions, alterations, etc., and for making good all work damaged or disturbed to the approval of the Principal Agent.

Prices are in addition to the above to include for the temporary removal and on completion setting back

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in position of all loose furniture, fittings, etc., all to the approval of the Principal Agent and no extras in this regard will be entertained.

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REMOVAL OF EXISTING DEBRIS, RUBBLE, ETC

Break up and remove mass rubble and debris:

A	Existing rubble and debris including carting all spoil from site	m3	63	
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REMOVAL OF EXISTING IRONMONGERY

Carefully taking out and removing sundry ironmongery:

B	Stainless steel single roll toilet roll holder	No	20	
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MAINTENANCE OF EXISTING PLUMBING

Grade R VIP Pit maintenance:

C	Allow for honey sucking to existing Grade R ablution sewer storage pits, etc.		Item	
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D	Allow for honey sucking to existing Girls/disabled ablution sewer storage pits, etc.		Item	
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E	Allow for honey sucking to existing Boys ablution sewer storage pits, etc.		Item	
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F	Allow for honey sucking to existing Staff ablution sewer storage pits, etc.		Item	
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MAKING GOOD OF BRICKWORK IN BEAMFILLING, ETC

Making good existing brickwork in beamfilling:

G	Build in new half brick wall internally to close gaps in beamfilling.	m2	19	
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MAKING GOOD OF PLASTERING FINISHES, ETC

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Item No		Quantity	Rate	Amount
<u>SECTION No. 2 BILL No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</u>				
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".				
<u>REINFORCED CONCRETE</u>				
<u>25 MPa/19mm Concrete in:</u>				
A	Concrete topping, 50mm thick over existing pre-cast concrete ribs.	m3	5	
B	Ramps.	m3	1	
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
C	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	4.0	
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a wood float Class U2 finish</u>				
D	Surface beds, etc.	m2	22	
E	Ramps	m2	3	
<u>SMOOTH FORMWORK</u>				
<u>Smooth Formwork to Sides:</u>				
F	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	32	
<u>ROUGH FORMWORK</u>				
Carried to Collection				R
Section 2 Bill 2 Concrete, Formwork & Reinforcement				

<u>Boxing in formwork to form</u>					
G	Rebated opening size 450 x 450mm through 100mm thick slab	No	8		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement:</u>					
H	Type Ref 193 fabric reinforcement in surface beds.	m2	25		
Carried to Collection				R	
Section 2					
Bill 2					
Concrete, Formwork & Reinforcement					

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Item No		Quantity	Rate	Amount
<u>SECTION No. 2 BILL No. 3 CARPENTRY AND JOINERY</u>				
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".				
<u>CARPENTRY</u>				
A	50 x 76mm Cross bracing.	m	24	
<u>Sundries</u>				
B	"Teco" galvanised two way hurricane clip	No	138	
Carried to Summary of Section 2				R
Section 2				
Bill 3				
Carpentry and Joinery				

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Item No		Quantity	Rate	Amount
<u>SECTION No. 2 BILL No. 4 IRONMONGERY</u>				
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".				
<u>LOCKS</u>				
<u>Locks:</u>				
A	Padlock	No	10	
<u>BATHROOM FITTINGS</u>				
<u>Stainless Steel Bathroom Fittings:</u>				
B	Free standing She Bin: manufactured from Grade 304, 1,2/1.5mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20litre capacity	No	7	
<u>Toilet roll holders:</u>				
C	White vandal proof and lockable two toilet roll holder fixed to tile faced wall	No	20	
Carried to Summary of Section 2				R
Section 2 Bill 4 Ironmongery				

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Item No	Quantity	Rate	Amount
SECTION No. 2 BILL No. 5 METALWORK			
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".			
MILD STEEL			
<u>Manhole cover locking plates</u>			
A	Purpose made flat bar locking plate fixed to 50 x 50 x 3mm section plate hinge and 50 x 50 x 3mm locking plate (lock elsewhere measured)	No	8
GALVANISED MILD STEEL BALUSTRADES			
1150mm High balustrades are to be constructed of 50 x 25 x 2mm tubing top rail and 50 x 10mm flat bar bottom rail surrounds, mitred and welded at angles fitted to 50 x 50 x 2mm stancheons 1,2m high spaced at 1,2m centres and the surrounds filled in with 20 x 20 x 2,5mm thick hollow section vertical intermediate rails welded at ends of surrounds and spaced 50mm apart.			
Before leaving the works of the manufacturers all balustrades are to be thoroughly cleaned of all mill scale, oil, grease, etc., to comply with SABS 064 and after erection all damaged surfaces are to be thoroughly cleaned and touched up with aluminium paint all to the approval of the Principal Agent.			
Prices are to include for fabricating to detail drawings, welding, filing welds smooth, galvanising and erecting and bolting in position - all to the approval of the Principal Agent.			
Carried to Collection			R
Section 2 Bill 5 Metalwork			

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Galvanised mild steel balustrading:

B Balustrades 1,15m high with stancheons spaced at not exceeding 1,2m centres and fitted with intermediate rails as described and erecting in position

m 18

C Ditto but raking ditto

m 7

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R

Section 2
Bill 5
Metalwork

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 2 BILL No. 6 PLUMBING AND DRAINAGE (PROVISIONAL)</u> For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371". <u>SANITARY FITTINGS</u> The following sanitary fittings are to be approved by the Principal Agent. Prices are to include for cleaning down and leaving in perfect condition on completion and unless otherwise described for fixing to and including plugs in concrete floor and plugs in or bolting to walls and for making good in all trades to floor and wall finishes - all to the approval of the Principal Agent. Prices for all sanitary fittings are in addition to include for the application of white anti-fungal silicone sealant between the fittings and abutting wall and floor finishes, vanity tops, bathroom fittings, etc. <u>Heavy duty moulded polyethylene:</u>			
A	VIP 450 pit pedestal with incorporated seat and flap size 790 x 450 x 450mm high with and including foot piece and VIP 200 inlet funnel/plug, including setting in position in hole elsewhere and casting concrete plug with lifting handle	No	4	
	Carried to Summary of Section 2			R
	Section 2 Bill 6 Plumbing (Provisional)			

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 2 BILL No. 7 PAINTWORK</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".			
	<u>PAINTWORK TO NEW WORK</u>			
	<u>PAINT ON WALLS</u>			
	<u>Prepare and apply one coat bonding liquid, one undercoat 'Plascon Merit' alkali resistant plaster primer to SABS 1416 and two finishing coats 'Plascon Wall & All' pure acrylic emulsion paint to SABS 1586 Grade 1 on:</u>			
A	Internal plastered walls	m2	19	
	<u>PAINT ON WOOD</u>			
	<u>Prepare and apply two coats Carbolineum on:</u>			
B	Sawn softwood bracing before fixing	m2	6	
	<u>REDECORATION OF PREVIOUSLY PAINTED WORK</u>			
	Prices for redecoration, etc., of all surfaces previously painted are to include for washing down with sugar soap in hot water, rinsing with clean water, removing existing polish or sealer where this occurs, and for rubbing down with sandpaper to remove all loose or flaking paint, varnish, etc., stopping and bringing forward all bare patches before application of finish specified.			
	All proprietary cleaning agents, sealants, paint finishes, etc., specified are to be mixed and applied strictly in accordance with the manufacturer's instructions.			
	<u>SPECIALIST FLOOR AND WALL COATINGS</u>			
	Carried to Collection		R	
	Section 2			
	Bill 7			
	Paintwork			

FLOOR COATINGS

Special floor coatings are to be applied by approved specialists in strict accordance with the manufacturer's instructions to provide a hard high quality finish, free of all blemishes, of selected colours and all to the approval of the Principal Agent.

Floor coatings are only to be applied to screeded surfaces when the moisture content of the screed does not exceed five (5) percent as determined by a SABS approved moisture meter. Prior to the application of the special floor coatings the Contractor must obtain from the specialist applicators written approval of the screed surfaces and this approval must be deposited with the Principal Agent.

Prices are to include for all necessary preparation, stopping, filling and priming of surfaces in order to achieve a high quality finish with materials recommended by the manufacturers of the finishes as being suitable for use with their products. Prices are to include for all cutting in and masking required.

The Contractor will be required to provide sample panels of the various types of finishes for the approval of the Principal Agent and all finished work must be equal to the approved samples.

Prime surfaces and apply two coats non-slip self-levelling epoxy floor finish with anti-microbial additive having a finished thickness of 0,5mm minimum 25N/mm², free from laitance, dust and other contamination on:

C	Cement screeded floors	m2	87	
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Carried to Collection

R

Section 2
Bill 7
Paintwork

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<u>SECTION SUMMARY - Section 2 - Ablutions</u>		<u>Page No</u>	<u>Amount</u>
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Item No		Quantity	Rate	Amount
SECTION No. 3 BILL No. 1 APRONS AND WALKWAYS (PROVISIONAL)				
For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".				
<u>ALTERATIONS</u>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>				
A	Apron slabs, etc	m3	41	
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
B	Reduced levels under floors	m3	33	
C	Trenches	m3	111	
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
D	Soft rock	m3	11	
E	Hard rock	m3	6	
<u>Keeping excavations free of water:</u>				
F	Allow for keeping all excavations free of water.		Item	
<u>Risk of collapse of excavations:</u>				
G	Sides of trench and hole excavations not exceeding 1,5m deep	m2	316	
Carried to Collection				R
Section 3 Bill 1 Aprons and Open Walkways (Provisional)				

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<u>Extra over all excavations for carting away:</u>			
H	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	58
<u>FILLING ETC OTHER THAN BULK</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
I	Backfilling to trenches, holes, etc.	m3	86
<u>Earth filling (G7) supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
J	Under apron slabs, etc	m3	33
<u>Coarse river sand filling supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
K	Under floors, etc	m3	11
<u>Compaction of surfaces:</u>			
L	Compaction of ground surface under apron slabs, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	222
<u>Prescribed density tests on filling:</u>			
M	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	18
<u>SOIL POISONING</u>			
<u>Weed killer:</u>			
N	'Weedmaster Turfmaster' or other approved weed and grass killer applied to ground under precast concrete pavings.	m2	222
Carried to Collection			R
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Bill 1			
Aprons and Open Walkways (Provisional)			

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<u>Soil poisoning applied by a registered pest control company and guaranteed against termite infestation for five years:</u>					
O	Antproofing ground under solid floors ditto including raking out V-shaped channel 75mm wide against walls, etc., and thoroughly saturate with antproofing solution and fill in and tamp down.	m2	222		
P	To bottoms and sides of trenches etc.	m2	427		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25MPa/19mm concrete in:</u>					
Q	Foundation to walls cast against excavated surfaces	m3	25		
R	Apron slabs, etc cast in panels on filling	m3	33		
S	Thickening under surface bed on filling	m3	9		
<u>CONCRETE TESTING</u>					
T	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	9.0		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
U	Apron slabs, etc to falls	m2	222		
<u>FORMWORK CLASS F1 (ORDINARY FINISH)</u>					
<u>Formwork to sides:</u>					
V	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	356		
<u>PERMANENT FORMWORK</u>					
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Section 3					
Bill 1					
Aprons and Open Walkways (Provisional)					

	<u>Permanent formwork formed of 6mm fibre cement boarding to:</u>				
W	Soffit of slab over channel	m2	16		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with 10mm bitumen impregnated softboard between vertical concrete and brick surfaces:</u>				
X	10mm Joints not exceeding 300mm high	m	24		
	<u>Saw-cut joints:</u>				
Y	10mm wide x 20mm deep saw cut joint to top of concrete slab	m	49		
	<u>Fabric reinforcement:</u>				
Z	Type 193 fabric reinforcement in concrete apron slabs, etc	m2	222		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar</u>				
AA	One brick walls	m2	122		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement:</u>				
AB	High tensile steel fabric reinforcement 150mm wide to brick walls lapped full width at angles and junctions and building in (measured nett).	m	478		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in cement mortar</u>				
AC	One brick walls.	m2	103		
Carried to Collection				R	
Section 3					
Bill 1					
Aprons and Open Walkways (Provisional)					

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	<u>Brickwork reinforcement:</u>				
AD	High tensile steel fabric reinforcement 150mm wide to brick walls lapped full width at angles and junctions and building in (measured nett).	m	303		
	<u>FACE BRICKWORK</u>				
	<u>Face brick matching existing pointed with 6mm square recessed horizontal and vertical joints:</u>				
AE	Extra over brickwork for fair face brickwork externally	m2	111		
AF	220mm Wide, brick-on-edge header course coping to top of one brick wall built fair and pointed on top and both edges.	m	158		
	<u>JOINT SEALANTS ETC</u>				
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc:</u>				
AG	In filling to 10 x 15mm horizontal open joints including raking out softboard.	m	24		
AH	In filling to 10 x 20mm horizontal open saw-cut joints.	m	49		
Carried to Collection				R	
Section 3					
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Aprons and Open Walkways (Provisional)					

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 3 BILL No. 2 FENCING AND GATES (PROVISIONAL)</u> For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371". <u>SECURITY FENCING</u> <u>Galvanised mild steel security fencing and gates:</u>			
A	Fencing 2100mm high overall of four strands of 4mm galvanised steel draw wire, tightly drawn and fixed to posts and straining eye bolts, covered with 50 x 50 x 2,5mm approved galvanised weld-mesh in long lengths without horizontal joints, tied with 2,5mm binding wire at 500mm centres to each strand of draw wire and provided with two coils 675mm 'Flat-wrap Razor Wire', one fixed to bottom of fence to weld-mesh and the other to top of fence to weld-mesh with 2,5mm binding wire at each intersection with wire and as necessary, including clearance and preparation of ground to a width of 1500mm.	m	167	
	<u>Hot dipped galvanised mild steel posts:</u>			
B	50mm Internal diameter x 2,8mm wall thickness galvanised mild steel stay, 2,5m long, with one end flattened, bent, holed for and bolted to post and other end fitted with 200 x 200 x 6mm thick base plate welded on and embedding end of stay in concrete block (elsewhere measured).	No	10	
C	50mm Internal diameter x 2,8mm wall thickness galvanised mild steel intermediate post 3,28m long, holed for strands, with one end sealed off with 4mm thick galvanised head cap and the other end with 200 x 200 x 6mm thick base plate welded on and embedding end of post in concrete block (elsewhere measured).	No	46	
	Carried to Collection			R
	Section 3			
	Bill 2			
	Fencing and Gates (Provisional)			

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D	100mm Internal diameter x 3mm wall thickness galvanised mild steel straining posts 2,555m long, holed for strands or bolts, with one end sealed off with 4mm thick galvanised head cap and the other end with 300 x 300 x 6mm thick base plate welded on and embedding end of post in concrete block (elsewhere measured).	No	10		
	<u>Hot dipped galvanised welded steel gates bolted to steel posts:</u>				
E	Single gate to detail size 1,2m wide and 2,1m high overall; formed of 50mm (internal) diameter x 2,5mm thick galvanised mild steel tubular frame mitred and flush welded at angles and with one 50mm (internal) diameter x 2,5mm thick galvanised mild steel tubular diagonal brace with ends scribed into corners and flush welded to frame and covered with 50 x 50 x 2,5mm approved galvanised weldmesh securely bound to frame and brace with 2mm diameter galvanised binding wire; hang gate on two 20mm diameter galvanised mild steel purpose made adjustable hinges each 300mm girth with one end threaded for and fitted with nut, locknut and washers and other end forged around stile and welded together and with 10mm diameter galvanised mild steel collar forged around and welded to stile above each hinge; fit gate with 10mm diameter galvanised mild steel semi-circular lock surround 300mm girth with both ends welded to stile and with an approved 180mm galvanised mild steel pad bolt welded to stile.	No	1		
	<u>Sundries:</u>				
F	760 x 450 x 600mm Cement concrete (15MPa/19mm) base to stay posts, projecting 50mm above ground level, top surfaces smoothed down from post to the ground and rounded on salient angles, including necessary excavation, backfilling, ramming and formwork.	No	10		
G	450 x 450 x 900mm Ditto base to intermediate and corner posts, ditto.	No	56		
	Carried to Collection			R	
	Section 3				
	Bill 2				
	Fencing and Gates (Provisional)				

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 3 BILL No. 3 DRAINAGE (PROVISIONAL)</u>			
	<u>NOTE:</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".			
	<u>STORMWATER CHANNELS</u>			
	<u>REINFORCED CONCRETE</u>			
	<u>20MPa/19mm concrete in:</u>			
A	V-shaped channel 600mm wide x average 130mm thick reinforced with and including Type 193 fabric reinforcement, with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 1850mm long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 12mm and filled with two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc and including all necessary excavation, formwork, filling, etc	m	221	
B	Extra for angles, intersections, ends, dressing into sides of catchpits, etc	No	28	
C	Triangular shaped concrete spill basin size 600mm at head, 1500mm at base end and 1050mm long, formed of 200mm thick 20MPa/19mm concrete base with concrete upstand size 200 x 200mm high along two sides and 200 x 200 downstand edge beam, the top of the base inlaid with eleven (11) No. 150 x 150 x 150mm concrete blocks protruding 55mm above the surface of the concrete, with concrete blocks cast into concrete whilst still green and loose stones of 150 to 200mm diameter at the base of the spill basin for a width of 200mm, including all the necessary excavations, compaction, formwork, etc	No	4	
	Carried to Collection			R
	Section 3			
	Bill 3			
	Drainage (Provisional)			

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

EARTH DRAINS AND BERMS

Excavation in earth not exceeding 2m deep

D	Excavate in earth to form an unlined open earth drain, 1500mm wide and 500mm deep across the slope of the ground.	m3	15		
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THE FOLLOWING IN SUBSOIL DRAINAGE

E	Excavation not exceeding 2m deep for drain trenches	m3	54		
F	Backfilling to drain trenches compacted to ?% Mod AASHTO density	m3	26		
G	19mm Crushed stone encasing to pipes	m3	9		
H	"Kaymat U19" Geo-fabric filter blanket wrapped around stone encasing with 150mm side and 300mm end laps including stitching	m2	21		
I	110mm Slotted uPVC agricultural pipes laid in stone encasing	m	35		
J	Extra for 110mm capped end	No	2		
K	Extra for 110mm bend	No	2		
L	Extra for 110mm junction	No	1		

CONCRETE

Thrust blocks:

M	Unreinforced concrete (20MPa) in thrust blocks at bends, tees, etc., including necessary excavation, form work, etc	m3	2		
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THE FOLLOWING IN 2NO. SUB-SOIL DRAINAGE
CLEANING EYE

EARTHWORKS

Carried to Collection

R

Section 3
Bill 3
Drainage (Provisional)

<u>Excavation in earth not exceeding 2m deep for:</u>					
N	Reduced levels under slabs	m3	0.4		
<u>CONCRETE</u>					
<u>Reinforced Concrete</u>					
<u>20 MPa/19 mm concrete in:</u>					
O	Bottoms and sides cast against excavated surfaces.	m3	0.4		
<u>20MPa precast concrete:</u>					
P	Reinforced concrete cover to cleaning eye size 0,6 x 0,6 x 0.1m thick with 6mm diameter galvanised steel handle as per detail.	No	2		
<u>Concrete test cubes:</u>					
Q	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract.	No	3.00		
<u>FORMWORK</u>					
<u>Formwork (use and waste) to concrete to:</u>					
R	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	5		
<u>REINFORCEMENT</u>					
<u>Mild steel reinforcement to structural concrete work</u>					
S	8mm Diameter bars	kg	3		
<u>SUNDRY METALWORK:</u>					
<u>Sundry galvanised steelwork:</u>					
T	100 x 65 x 20mm x 7,07kg/m L-shaped frame size 600 x 600mm fixed to concrete.	No	2		
Carried to Collection				R	
Section 3					
Bill 3					
Drainage (Provisional)					

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>SUNDRIES</u>					
<u>Thrust blocks:</u>					
U	Unreinforced concrete (20MPa) in thrust blocks size 1200 x 560 x 560mm at junctions, etc., including necessary excavation, form work, etc	m3	1		
<u>THE FOLLOWING IN 2NO. JUNCTION BOX</u>					
<u>The following in junction boxes, constructed of 150mm thick cement concrete (20MPa) bottoms, and sides, with 100mm cement concrete (20MPa) top, all excavations, filling, compacting to natural ground level and carting away surplus spoil away from site:</u>					
V	Junction box size 750 x 750mm and exceeding 150mm and not exceeding 300mm deep internally.	No	2		
<u>THE FOLLOWING IN 2No SUB-SOIL DRAINAGE OUTLET:</u>					
<u>Excavation and filling:</u>					
W	Reduced levels under slabs	m3	0.4		
<u>Extra over all excavations for carting away:</u>					
X	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	0.4		
<u>25MPa/19mm concrete in:</u>					
Y	Surface bed with nib cast against excavated surfaces	m3	0.5		
<u>Concrete test cubes:</u>					
Z	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract.	No	3.00		
Carried to Collection				R	
Section 3					
Bill 3					
Drainage (Provisional)					

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TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

Testing:

AJ	Allow for testing the whole surface water channels and subsoil drainage to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect.
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Item

Carried to Collection

R

Section 3
Bill 3
Drainage (Provisional)

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

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**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 3 BILL No. 4 WATER SUPPLIES (PROVISIONAL)</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371".			
	<u>ALTERATIONS</u>			
	<u>REMOVAL OF EXISTING SANITARY PLUMBING PIPING</u>			
	<u>Taking off and removing standpipe encased in 110mm uPVC pipe filled with concrete including disconnecting piping from fittings:</u>			
A	Standpipe, 800mm high, including all fittings.	No	4	
	<u>REMOVAL OF EXISTING WORK ON SITE</u>			
	<u>Take up and remove existing plastic tank:</u>			
B	Take off and remove existing 2500litre rainwater tanks and set aside for re-use.	No	4	
	<u>RE-FIXING OF RAINWATER TANKS PREVIOUSLY SET ASIDE FOR RE-USE</u>			
	<u>Re-fixing of polyethylene rainwater tanks:</u>			
C	Re-fixing existing rainwater tanks into new tank stands securing tanks with 30 x 1,6mm Ties (elsewhere measured)	No	4	
	<u>THE FOLLOWING IN RAISING 4NO. RAINWATER TANKS AND TANK STANDS</u>			
	<u>CONCRETE</u>			
	<u>25MPa/19mm Reinforced concrete in:</u>			
D	Surface beds, slabs, etc	m3	4	
	Carried to Collection			R
	Section 3			
	Bill 4			
	Water Supplies (Provisional)			

	<u>TEST BLOCKS</u>				
E	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	3.0		
	<u>Sundries:</u>				
F	Extra for setting in position and casting 12mm diameter rawl bolt into concrete base.	No	16		
	<u>FORMWORK CLASS F2 (SMOOTH FINISH)</u>				
	<u>Formwork to sides:</u>				
G	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	29		
	<u>Boxing in Class F2 formwork to form:</u>				
H	50 x 50mm horizontal chamfer.	m	29		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement:</u>				
I	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	13		
	<u>BRICKWORK</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar:</u>				
J	One brick walls	m2	7		
	<u>Brickwork reinforcement:</u>				
K	High tensile steel fabric reinforcement 150mm wide to every second course of brick walls lapped full widths at angles and junctions and building in.	m	41		
	<u>Galvanised hoop iron cramps, ties, etc:</u>				
L	30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters).	No	16		
	Carried to Collection			R	
	Section 3				
	Bill 4				
	Water Supplies (Provisional)				

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

<u>FACE BRICKWORK</u>			
<u>Face brick matching existing pointed with 6mm square recessed horizontal and vertical joints:</u>			
M	Extra over brickwork for fair face brickwork externally	m2	7
<u>SANITARY PLUMBING</u>			
<u>Galvanised steel pipes:</u>			
N	20mm Pipes	m	2
<u>Extra over galvanised steel pipes for steel fittings:</u>			
O	20mm Fittings	No	8
<u>SUNDRIES</u>			
<u>Sleeves to standpipes:</u>			
P	110mm Diameter uPVC sleeve pipe 600mm long and placing in position over 20mm diameter galvanised mild steel stand pipe including packing around stand pipe with (15 MPa) cement concrete with top edge splayed and dressed around stand pipe.	No	3
Q	Prepare and apply one coat alkali resistant primer, one undercoat and two finishing coats high gloss enamel on fibre reinforced cement sleeve pipes.	m2	1
<u>TESTING</u>			
<u>Testing:</u>			
R	Allow for testing the whole of the water supplies to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect	Item	
Carried to Collection			R
Section 3			
Bill 4			
Water Supplies (Provisional)			

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

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**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 3 BILL No. 5 RETAINING WALLS (PROVISIONAL)</u>			
	<u>Preambles:</u> For general specifications of materials to be used and methods to be applied see "Model Preambles for Trades" and Supplementary Preambles			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
A	Trenches	m3	108	
	<u>Extra over trench and hole excavations in earth for excavation in:</u>			
B	Soft rock	m3	11	
C	Hard rock	m3	6	
	<u>Extra over all excavations for carting away:</u>			
D	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	56	
	<u>Keeping excavations free of water:</u>			
E	Keeping excavations free of all water other than subterranean water		Item	
	<u>Risk of collapse of excavations:</u>			
F	Sides of trench and hole excavations not exceeding 1,5m deep	m2	334	
	<u>Selected earth filling from the excavations deposited in layers not exceeding 150mm thick after compaction and compacted to a density of 93% Modified AASHTO maximum density:</u>			
G	Backfilling to trenches, holes, etc	m3	52	
	Carried to Collection			R
	Section 3			
	Bill 5			
	Retaining Walls (Provisional)			

<u>REINFORCED CONCRETE</u>				
<u>20MPa/19mm concrete in:</u>				
H	Foundation to walls cast against excavated surfaces	m3	27	
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
I	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	3.0	
<u>BRICKWORK IN FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar</u>				
J	One brick walls	m2	129	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement:</u>				
K	High tensile steel fabric reinforcement 150mm wide to brick walls lapped full width at angles and junctions and building in (measured nett).	m	506	
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in cement mortar</u>				
L	One brick walls.	m2	167	
<u>Brickwork reinforcement:</u>				
M	High tensile steel fabric reinforcement 150mm wide to brick walls lapped full width at angles and junctions and building in (measured nett).	m	655	
<u>FACE BRICKWORK</u>				
Carried to Collection				R
Section 3				
Bill 5				
Retaining Walls (Provisional)				

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

Face brick matching existing pointed with 6mm square recessed horizontal and vertical joints:

N	Extra over brickwork for fair face brickwork externally	m2	201
O	220mm Wide, brick-on-edge header course coping circular plan to top of one brick wall built fair and pointed on top and both edges.	m	167

Carried to Collection

R

Section 3
Bill 5
Retaining Walls (Provisional)

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

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**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>SECTION SUMMARY - Section 3 - External Works (Provisional)</u>		<u>Page No</u>	<u>Amount</u>
<u>Bill No</u>			
1	Aprons and Open Walkways (Provisional)	84	
2	Fencing and Gates (Provisional)	87	
3	Drainage (Provisional)	94	
4	Water Supplies (Provisional)	98	
5	Retaining Walls (Provisional)	102	
Carried to Final Summary			R
Section 3			

**TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE**

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 4 BILL No. 1 PROVISIONAL SUMS</u>			
	<u>Community Liaison Officer</u>			
A	Provide the sum of R 22 500.00 (Twenty Two Thousand, Five Hundred Rands) for Employment of Community Liaison Officer to be employed by the Main Contractor and paid an allowance of R7 500.00 a month for the duration of (3 Months).	Item		
B	Add: Mark-up.	%		
	<u>Landscaping</u>			
C	Provide the sum of R 25 000.00 (Twenty Five Thousand, Rands) for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item		
D	Add: Mark-up.	%		
	<u>Core-drilling of VIP Staff Toilet Holes for VIP 450mm Fitting:</u>			
E	Provide the Provisional Sum of R45 000,00 (Forty Five Thousand Rands) for the core-drilling of holes in existing Staff toilet slab for the installation of VIP450 seat fitting.	Item		
F	Add: Mark-up.	%		
	<u>Temporary Mobile Toilets:</u>			
G	Provide the sum of R 50 000.00 (Fifty Thousand, Rands) for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire construction period.	Item		
H	Add: Mark-up.	%		
	Carried to Final Summary		R	
	Section 4			
	Bill 1			
	Provisional Sums			

TONTI JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME OMITTED SCOPE

Section No		Page	Amount
FINAL SUMMARY			
<u>VOLUME 3</u>			
1	Section 1 - Preliminaries	59	
2	Section 2 - Ablutions	78	
3	Section 3 - External Works (Provisional)	103	
4	Section 4 - Provisional Sums	104	
Sub-Total			R
<u>CONTINGENCIES</u>			
Allow the sum of R 40 000.00 (Forty Thousand Rand) for Contingencies to be used or deducted in full at the Representative/Agent's discretion.			R 40 000.00
Sub-Total			R
ADDValue Added Tax (15%)			R
CARRIED TO FORM OF OFFER			R