

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

DEFINITIONS

1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

"**COMMENCEMENT DATE**" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

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	No clause			
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	<u>OBJECTIVE AND PREPARATION</u>			
2	A2.0 OFFER, ACCEPTANCE AND PERFORMANCE			
	Clause 2.0			
	Fixed:_____ Value related:_____ Time related:_____	Item		
3	A3.0 DOCUMENTS			
	Clause 3.0			
	Clause 3.2.1 is amended by replacing"14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer, principal agent and agents shall have access at all times			
	Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer "			
	Fixed:_____ Value related:_____ Time related:_____	Item		
4	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		
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5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
6	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
9	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(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</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(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</p>				
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10.6 Injury to Persons or loss of or damage to Properties

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

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

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

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

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	<p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
11	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
12	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
13	<p>A13.0 No clause</p>	N/A		
14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p>			
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14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

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

14.2 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**

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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**

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

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

14.4 Where **security** as a variable **construction guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable **Construction Guarantee** form included in the invitation to tender

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

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

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

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

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

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

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

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

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

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

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

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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**

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

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EXECUTION

15 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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

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16 A16.0 ACCESS TO THE WORKS

Clause 16.0

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17	<p>A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
18	<p>A18.0 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
19	<p>A19.0 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
20	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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21	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
22	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>COMPLETION</u></p>	Item		
24	<p>A24.0 PRACTICAL COMPLETION</p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
25	<p>A25.0 WORKS COMPLETION</p> <p>Clause 25.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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26	<p>A26.0 FINAL COMPLETION</p> <p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
27	<p>A27.0 LATENT DEFECTS LIABILITY PERIOD</p> <p>Clause 27.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
28	<p>A28.0 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
29	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
30	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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PAYMENT

31 A31.0 INTERIM PAYMENT TO THE CONTRACTOR

Clause 31.0

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

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

Alternative A

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

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

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

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

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

Alternative B

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

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

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

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

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

Clause 31.12 is amended by deleting the following:

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

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32	<p>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>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:</p> <p>"due to no fault of the contractor"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
33	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>CANCELLATION</u></p>	Item		
36	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p>			
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36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 37.0

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

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

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38	<p>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
39	<p>A39.0 CANCELLATION - CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) working days of completion of such a report"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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	<u>DISPUTE</u>			
40	A40.0 DISPUTE SETTLEMENT Clause 40.0 Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>SUBSTITUTE PROVISIONS</u>			
41	A41.0 STATE CLAUSES Clause 41.0 Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>CONTRACT VARIABLES</u>			
42	A42.0 THE SCHEDULE (DPW-04EC) Clause 42.0 Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract Fixed: _____ Value related: _____ Time related: _____	Item		
	<div style="text-align: right;">Carried to Collection</div> Section No. 1 Bill No. 1 Preliminaries THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE		R	

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

43 ***B1.1 Definitions and interpretation***

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

44 ***B2.1 Checking of documents***

Fixed: _____ Value related: _____ Time related: _____

Item

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Fixed: _____ Value related: _____ Time related: _____

Item

47 ***B2.4 Interests of agents***

Fixed: _____ Value related: _____ Time related: _____

Item

48 ***B2.5 Priced documents***

Fixed: _____ Value related: _____ Time related: _____

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49	<p>B2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>B3.0 THE SITE</p>	Item	
50	<p>B3.1 Defined works area</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
51	<p>B3.2 Geotechnical investigation</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
52	<p>B3.3 Inspection of the site</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
53	<p>B3.4 Existing premises occupied</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
54	<p>B3.5 Previous work - dimensional accuracy</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
55	<p>B3.6 Previous work - defects</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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56	B3.7 Services - known		
	Fixed:_____ Value related:_____ Time related:_____	Item	
57	B3.8 Services - unknown		
	Fixed:_____ Value related:_____ Time related:_____	Item	
58	B3.9 Protection of trees		
	Fixed:_____ Value related:_____ Time related:_____	Item	
59	B3.10 Articles of value		
	Fixed:_____ Value related:_____ Time related:_____	Item	
60	B3.11 Inspection of adjoining properties		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
61	B4.1 Management of the works		
	Fixed:_____ Value related:_____ Time related:_____	Item	
62	B4.2 Programme for the works		
	Fixed:_____ Value related:_____ Time related:_____	Item	
63	B4.3 Progress meetings		
	Fixed:_____ Value related:_____ Time related:_____	Item	
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64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
66	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item		
67	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item		
68	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item		
69	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
70	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item		
71	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item		
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72	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item	
73	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item	
74	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item	
75	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
76	B7.1 Location Fixed: _____ Value related: _____ Time related: _____	Item	
77	B7.2 Water Fixed: _____ Value related: _____ Time related: _____	Item	
78	B7.3 Electricity Fixed: _____ Value related: _____ Time related: _____	Item	
79	B7.4 Telecommunication facilities Fixed: _____ Value related: _____ Time related: _____	Item	
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80	<p>B7.5 Ablution facilities</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>B8.0 PRIME COST AMOUNTS</p>	Item		
81	<p>B8.1 Responsibility for prime cost amounts</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</p>	Item		
82	<p>B9.1 General attendance</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
83	<p>B9.2 Special attendance</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
84	<p>B9.3 Commissioning - fuel, water and electricity</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>B10.0 FINANCIAL ASPECTS</p>	Item		
85	<p>B10.1 Statutory taxes, duties and levies</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
86	<p>B10.2 Payment for preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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87	<p>B10.3 Adjustment of preliminaries</p> <p>Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
88	<p>B10.4 Payment certificate cash flow</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
	<u>B11.0 GENERAL</u>	
89	<p>B11.1 Protection of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
90	<p>B11.2 Protection / isolation of existing / sectionally occupied works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
91	<p>B11.3 Security of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
92	<p>B11.4 Notice before covering work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
93	<p>B11.5 Disturbance</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item

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94	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
95	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item		
96	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item		
97	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item		
98	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item		
99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item		
100	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B12.0 SCHEDULE OF VARIABLES</u>			
101	B12.1 Schedule of variables Fixed: _____ Value related: _____ Time related: _____	Item		
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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 italicised in [] brackets

12.1 PRE-TENDER INFORMATION

12.1.1 Provisional bills of quantities

[2.2] The quantities are provisional
YES/NO

12.1.2 Availability of construction documentation

[2.3] *Construction documentation is complete*
YES/NO

12.1.3 Interests of agents

[2.4] Details:

12.1.4 Defined works area

[3.1] Details:

12.1.5 Geotechnical investigation

[3.2] Details:

12.1.6 Existing premises occupied

[3.4] Specific requirements:

12.1.7 Previous work - dimensional accuracy

[3.5] Details:

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12.1.8 **Previous work - defects**

[3.6] Details:

12.1.9 **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

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

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12.1.14 **Main notice board**

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

12.1.15 **Subcontractors' notice board**

[6.6] A notice board is required
YES/NO
Specific requirements:

12.1.16 **Water**

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

Option B (by **employer** - free of charge)
YES/NO

Option C (by **employer** - metered)
YES/NO

12.1.17 **Electricity**

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

Option B (by **employer** - free of charge)
YES/NO

Option C (by **employer** - metered)
YES/NO

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12.1.18 **Telecommunications**

[7.4] Telephone YES/NO

Facsimile YES/NO

E-mail YES/NO

12.1.19 **Ablution facilities**

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

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

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

[11.2] Protection is required YES/NO

12.1.21 **Special attendance**

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

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 **Protection of the works**

[11.1] Specific requirements:

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

12.1.24 **Environmental disturbance**
[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**
[10.2] Option A (prorated)
YES/NO

Option B (calculated)
YES/NO

12.2.2 **Adjustment of preliminaries**
[10.3] Option A (three categories)
YES/NO

Option B (detailed breakdown)
YES/NO

12.2.3 **Additional agreed preliminaries items**
Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

102 **C1.0 CONTRACT DRAWINGS**

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

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

* A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

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

Fixed: _____ Value related: _____
Time related: _____

Item

103 **C2.0 GENERAL PREAMBLES**

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

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Time related: _____

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104	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
106	<p>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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107	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
108	<p>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
109	<p>C8.0 SECURITY CHECK OF PERSONNEL</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
111	<p>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>		R	

C10.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____
Time related: _____

Item

C10.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____
Time related: _____

Item

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

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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

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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DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE

112 **C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

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

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

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

Fixed: _____ Value related: _____
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113	<p>C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)</p> <p>The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
114	<p>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)</p> <p>The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
115	<p>C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)</p> <p>The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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116	<p>C11.4 HEALTH AND SAFETY FILE (Construction Regulation 5.7)</p> <p>The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item	
117	<p>C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 6)</p> <p>The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work. The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item	
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118	<p>C11.6 RISK ASSESSMENT AND SAFETY POLICY (Construction Regulation 7)</p> <p>Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection.</p> <p>The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
119	<p>C11.7 SIGNIFICANT HAZARDA IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS</p> <p>The contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>		R	

120	<p>C11.8 ADDITIONAL FINANCIAL PROVISION</p> <p>The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
121	<p>C11.9 FALL PROTECTION PLAN (Construction Regulation 8)</p> <p>The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
122	<p>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 8.2(b))</p> <p>The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
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123	<p>C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT (Construction Regulation 21)</p> <p>The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
124	<p>C11.12 TRAINING (Construction Regulation 8 (c))</p> <p>The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall form part of the health and safety plan</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
125	<p>C11.13 DEMOLITION WORK (Construction Regulation 12)</p> <p>The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
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126	<p>C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)</p> <p>The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for;</p> <p>NOTIFICATION OF ASBESTOS PROCESSING PERSONAL PROTECTIVE EQUIPMENT PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE DEMOLITION WORK OF SHEETS LABELLING AND INFORMATION</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item			
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<u>EXTERNAL WORK</u>			
<u>BILL NO. 1</u>			
<u>STORM WATER DRAINAGE</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cleaning-up of disturbed areas</u>			
The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent			
<u>Concrete general</u>			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Concrete V-channels</u>			
Channels to be cast into alternate sections of 1.5m to form construction joint between panels			
		R	
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Section No. 2 Bill No. 1 Storm water drainage THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE			

Formwork			
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
<u>CONCRETE STORMWATER V DRAINAGE</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	398	
<u>Excavation in earth not exceeding 2m deep</u>			
Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	120	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	53	
<u>Sundries</u>			
<u>Keeping excavations free of water</u>			
Keeping excavations free of water other than subterranean water		Item	
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<u>Compaction of surfaces</u>				
5	Compaction of ground surface under V-drains, 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	398	
<u>TESTS</u>				
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
6	"Modified AASHTO Density" test	No	12	
<u>Soil insecticide</u>				
7	To bottoms and sides of trenches etc	m2	398	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>25MPa/19mm unreinforced concrete</u>				
8	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	40	
9	Extra over for T-intersection	No	3	
<u>TEST CUBES</u>				
<u>Concrete strength test cubes</u>				
10	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	6	
<u>High tensile steel reinforcement to structural concrete work</u>				
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<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
11	Type 617 fabric reinforcement in concrete infill to walls	m2	398		
<u>Sundries</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
12	V-drains to falls	m2	398		
<u>Rough formwork to sides</u>					
13	Edges of V-drains not exceeding 300mm high or wide	m	531		
<u>Inlet/outlet structures</u>					
14	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2		
15	Extra over for fair stopped end	No	2		
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<u>SECTION NO. 2 - DITLOU PRIMARY SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 2</u>			
<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p>			
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	67		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	17		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	2		
4	Hard rock	m3	1		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	94		
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	Risk of collapse of excavations			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	34	
	<u>Sundries</u>			
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water		Item	
	<u>Compaction of surfaces</u>			
8	Compaction of ground surface under strip footings, 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	67	
	<u>FILLING, ETC:</u>			
	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>			
9	Backfilling behind retaining walls	m3	20	
	<u>SOIL POISONING</u>			
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>			
10	Trenches	m2	34	
11	Bottom side of the trenches	m2	67	
	<u>TEST</u>			
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	<u>Allow for testing</u>				
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith.	No	6		
	<u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>15MPa/19mm unreinforced concrete</u>				
13	Surface blinding under footings and bases	m3	3		
	<u>25MPa/19mm reinforced concrete</u>				
14	Strip footings	m3	12		
15	Infill to cavity of hollow walls	m3	10		
	<u>TEST CUBES</u>				
	<u>Concrete strength test cubes</u>				
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0,64		
	<u>Fabric reinforcement</u>				
18	Type 617 fabric reinforcement in concrete infill to walls	m2	101		
	<u>BRICKWORK (PROVISIONAL)</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	320mm Hollow walls of two half brick skins	m2	101		
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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	11		
<u>2.5mm Brickwork reinforcement</u>					
21	75mm Wide reinforcement built in horizontally	m	788		
22	Butterfly wall ties	No	352		
<u>FACE BRICKWORK</u>					
<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for face brickwork	m2	101		
<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>					
24	320mm Copings on top of hollow walls	m	67		
<u>Sundries</u>					
<u>Waterproofing membrane</u>					
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	101		
<u>PVC-U soil and vent pipes</u>					
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43		
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<p><u>SECTION NO. 2 - DITLOU PRIMARY SCHOOL</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>PAVING, ETC</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><u>General</u></p> <p>The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed</p> <p><u>Site clearance</u></p> <p>All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent</p>			
<p style="text-align: right;">Carried to Collection</p>			
<p>Section No. 2 Bill No. 3 Paving THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>			

Filling (General)

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior to the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

CBR and indicator tests

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior to commencement of any placement thereof and/or filling done therewith

Density tests

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

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- **Filling to form building platforms, etc:**
1 Test per 200m² plan area per each 150mm thick layer

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

Keeping excavations free from water:

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

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Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

- Earth mattresses, building platforms, etc:

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

SANS 1200 Specification (General)

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

Measurement and payment

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

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Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

PAVING

Paving to ablution block areas

EARTHWORKS

Site clearance

- | | | | | |
|---|--|----|-----|--|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 240 | |
|---|--|----|-----|--|

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

- | | | | | |
|---|-----------------------------|----|----|--|
| 2 | Reduced levels under floors | m3 | 36 | |
|---|-----------------------------|----|----|--|

Extra over all excavations for carting away

- | | | | | |
|---|--|----|----|--|
| 3 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 36 | |
|---|--|----|----|--|

Keeping excavations free of water

- | | | | | |
|---|---------------------------------------|--|--|------|
| 4 | Keeping excavations free of all water | | | Item |
|---|---------------------------------------|--|--|------|

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	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
5	Upper selected layer	m3	36		
	<u>Earth filling supplied by the contractor under paving areas, etc</u>				
6	20mm Thick coarse river sand under paving	m2	36		
	<u>Compaction of surfaces</u>				
7	Compaction of ground surfaces under paved areas 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	240		
	<u>Prescribed density tests on filling</u>				
8	Tests to determine the degree of compaction, etc. of ground or filling	No	12		
	<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>				
9	Under paving etc	m2	240		
	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>				
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	240		
	<u>Concrete Kerbing</u>				
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<u>25MPa/19mm In-situ concrete edge beams</u>					
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	24		
<u>Sundries</u>					
12	Straight cutting of units to fit edge restraints	m	24		
<u>Temporary Chemical Toilet</u>					
<u>Supply, install, commission and remove temporary Structure</u>					
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1		
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<u>Formwork</u>			
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
<u>CONCRETE STORMWATER V DRAINAGE</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	109	
<u>Excavation in earth not exceeding 2m deep</u>			
Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	33	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	15	
<u>Sundries</u>			
<u>Keeping excavations free of water</u>			
Keeping excavations free of water other than subterranean water		Item	
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<u>Compaction of surfaces</u>				
5	Compaction of ground surface under V-drains, 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	109	
<u>TESTS</u>				
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
6	"Modified AASHTO Density" test	No	8	
<u>Soil insecticide</u>				
7	To bottoms and sides of trenches etc	m2	109	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>25MPa/19mm unreinforced concrete</u>				
8	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	11	
9	Extra over for T-intersection	No	2	
<u>TEST CUBES</u>				
<u>Concrete strength test cubes</u>				
10	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	6	
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<u>High tensile steel reinforcement to structural concrete work</u>					
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
11	Type 617 fabric reinforcement in concrete infill to walls	m2	109		
<u>Sundries</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
12	V-drains to falls	m2	109		
<u>Rough formwork to sides</u>					
13	Edges of V-drains not exceeding 300mm high or wide	m	145		
<u>Inlet/outlet structures</u>					
14	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2		
15	Extra over for fair stopped end	No	2		
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<u>EXTERNAL WORK</u>			
<u>BILL NO. 2</u>			
<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p>			
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	73		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	18		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	2		
4	Hard rock	m3	1		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	102		
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	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	36	
	<u>Sundries</u>			
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water		Item	
	<u>Compaction of surfaces</u>			
8	Compaction of ground surface under strip footings, 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	73	
	<u>FILLING, ETC:</u>			
	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>			
9	Backfilling behind retaining walls	m3	22	
	<u>SOIL POISONING</u>			
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>			
10	Trenches	m2	36	
11	Bottom side of the trenches	m2	73	
	<u>TEST</u>			
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	<u>Allow for testing</u>				
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith.	No	6		
	<u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>15MPa/19mm unreinforced concrete</u>				
13	Surface blinding under footings and bases	m3	4		
	<u>25MPa/19mm reinforced concrete</u>				
14	Strip footings	m3	13		
15	Infill to cavity of hollow walls	m3	11		
	<u>TEST CUBES</u>				
	<u>Concrete strength test cubes</u>				
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0,69		
	<u>Fabric reinforcement</u>				
18	Type 617 fabric reinforcement in concrete infill to walls	m2	109		
	<u>BRICKWORK (PROVISIONAL)</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	320mm Hollow walls of two half brick skins	m2	109		
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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	12		
<u>2,5mm Brickwork reinforcement</u>					
21	75mm Wide reinforcement built in horizontally	m	853		
22	Butterfly wall ties	No	384		
<u>FACE BRICKWORK</u>					
<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for face brickwork	m2	109		
<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>					
24	320mm Copings on top of hollow walls	m	73		
<u>Waterproofing membrane</u>					
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	109		
<u>PVC-U soil and vent pipes</u>					
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43		
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<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	195		
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Reduced levels under floors	m3	29		
<u>Extra over all excavations for carting away</u>					
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	29		
<u>Keeping excavations free of water</u>					
4	Keeping excavations free of all water		Item		
<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>					
5	Upper selected layer	m3	29		
<u>Earth filling supplied by the contractor under paving areas, etc</u>					
6	20mm Thick coarse river sand under paving	m2	195		
<u>Compaction of surfaces</u>					
7	Compaction of ground surfaces under paved areas 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	195		
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<u>Prescribed density tests on filling</u>			
8	Tests to determine the degree of compaction, etc. of ground or filling	No	6
<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>			
9	Under paving etc	m2	195
<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	195
<u>Concrete Kerbing</u>			
<u>25MPa/19mm In-situ concrete edge beams</u>			
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	19
<u>Sundries</u>			
12	Straight cutting of units to fit edge restraints	m	19
<u>Temporary Chemical Toilet</u>			
<u>Supply, install, commission and remove temporary Structure</u>			
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1
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<u>EXTERNAL WORK</u>			
<u>BILL NO. 1</u>			
<u>STORM WATER DRAINAGE</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cleaning-up of disturbed areas</u>			
The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent			
<u>Concrete general</u>			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Concrete V-channels</u>			
Channels to be cast into alternate sections of 1.5m to form construction joint between panels			
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Formwork			
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
<u>CONCRETE STORMWATER V DRAINAGE</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	49	
<u>Excavation in earth not exceeding 2m deep</u>			
Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	15	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	6	
<u>Sundries</u>			
<u>Keeping excavations free of water</u>			
Keeping excavations free of water other than subterranean water		Item	
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<u>Compaction of surfaces</u>				
5	Compaction of ground surface under V-drains, 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	49	
<u>TESTS</u>				
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
6	"Modified AASHTO Density" test	No	6	
<u>Soil insecticide</u>				
7	To bottoms and sides of trenches etc	m2	49	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>25MPa/19mm unreinforced concrete</u>				
8	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	5	
9	Extra over for T-intersection	No	1	
<u>TEST CUBES</u>				
<u>Concrete strength test cubes</u>				
10	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	4	
<u>High tensile steel reinforcement to structural concrete work</u>				
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<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
11	Type 617 fabric reinforcement in concrete infill to walls	m2	49		
<u>Sundries</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
12	V-drains to falls	m2	49		
<u>Rough formwork to sides</u>					
13	Edges of V-drains not exceeding 300mm high or wide	m	65		
<u>Inlet/outlet structures</u>					
14	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2		
15	Extra over for fair stopped end	No	1		
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 4 - MOGADIME SEC SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 2</u>			
<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p>			
Carried to Collection		R	
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	48		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	12		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	1		
4	Hard rock	m3	1		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	68		
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	Risk of collapse of excavations				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24		
	<u>Sundries</u>				
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under strip footings, 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	48		
	<u>FILLING, ETC:</u>				
	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
9	Backfilling behind retaining walls	m3	15		
	<u>SOIL POISONING</u>				
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>				
10	Trenches	m2	16		
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11	Bottom side of the trenches <u>TEST</u> <u>Allow for testing</u>	m2	49	
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith. <u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u> <u>15MPa/19mm unreinforced concrete</u>	No	4	
13	Surface blinding under footings and bases <u>25MPa/19mm reinforced concrete</u>	m3	2	
14	Strip footings	m3	9	
15	Infill to cavity of hollow walls <u>TEST CUBES</u> <u>Concrete strength test cubes</u>	m3	7	
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes <u>REINFORCEMENT (PROVISIONAL)</u> <u>High tensile steel reinforcement to structural concrete work</u>	Sets	2	
17	10mm Diameter bars <u>Fabric reinforcement</u>	t	0,46	
18	Type 617 fabric reinforcement in concrete infill to walls <u>BRICKWORK (PROVISIONAL)</u>	m2	73	
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	<u>Brickwork of NFP bricks in class II mortar</u>			
19	320mm Hollow walls of two half brick skins	m2	73	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Joint forming material in movement joints</u>			
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	49	
	<u>2.5mm Brickwork reinforcement</u>			
21	75mm Wide reinforcement built in horizontally	m	569	
22	Butterfly wall ties	No	176	
	<u>FACE BRICKWORK</u>			
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
23	Extra over brickwork for face brickwork	m2	73	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
24	320mm Copings on top of hollow walls	m	48	
	<u>Sundries</u>			
	<u>Waterproofing membrane</u>			
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	49	
	<u>PVC-U soil and vent pipes</u>			
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43	
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Item No	Quantity	Rate	Amount
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<u>EXTERNAL WORK</u>			
<u>BILL NO. 3</u>			
<u>PAVING, ETC</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described			
<u>General</u>			
The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed			
<u>Site clearance</u>			
All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent			
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Filling (General)

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior to the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

CBR and indicator tests

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior to commencement of any placement thereof and/or filling done therewith

Density tests

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

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- **Filling to form building platforms, etc:**
1 Test per 200m² plan area per each 150mm thick layer

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

Keeping excavations free from water:

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

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Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

- Earth mattresses, building platforms, etc:

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

SANS 1200 Specification (General)

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

Measurement and payment

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

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Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

PAVING

Paving to ablution block areas

EARTHWORKS

Site clearance

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 75 |
|---|--|----|----|

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

- | | | | |
|---|-----------------------------|----|----|
| 2 | Reduced levels under floors | m3 | 11 |
|---|-----------------------------|----|----|

Extra over all excavations for carting away

- | | | | |
|---|--|----|----|
| 3 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 11 |
|---|--|----|----|

Keeping excavations free of water

- | | | | |
|---|---------------------------------------|------|--|
| 4 | Keeping excavations free of all water | Item | |
|---|---------------------------------------|------|--|

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	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
5	Upper selected layer	m3	11		
	<u>Earth filling supplied by the contractor under paving areas, etc</u>				
6	20mm Thick coarse river sand under paving	m2	75		
	<u>Compaction of surfaces</u>				
7	Compaction of ground surfaces under paved areas 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	75		
	<u>Prescribed density tests on filling</u>				
8	Tests to determine the degree of compaction, etc. of ground or filling	No	4		
	<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>				
9	Under paving etc	m2	75		
	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>				
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	75		
	<u>Concrete Kerbing</u>				
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<u>25MPa/19mm In-situ concrete edge beams</u>					
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	8		
<u>Sundries</u>					
12	Straight cutting of units to fit edge restraints	m	8		
<u>Temporary Chemical Toilet</u>					
<u>Supply, install, commission and remove temporary Structure</u>					
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1		
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 5 - MATSEDI PRIMARY SCHOOL</u>			
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<u>BILL NO. 1</u>			
<u>STORM WATER DRAINAGE</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cleaning-up of disturbed areas</u>			
The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent			
<u>Concrete general</u>			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Concrete V-channels</u>			
Channels to be cast into alternate sections of 1.5m to form construction joint between panels			
		R	
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<u>Formwork</u>			
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
<u>CONCRETE STORMWATER V DRAINAGE</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	110	
<u>Excavation in earth not exceeding 2m deep</u>			
Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	33	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	15	
<u>Sundries</u>			
<u>Keeping excavations free of water</u>			
Keeping excavations free of water other than subterranean water		Item	
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<u>Compaction of surfaces</u>					
5	Compaction of ground surface under V-drains, 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	110		
<u>TESTS</u>					
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>					
6	"Modified AASHTO Density" test	No	4		
<u>Soil insecticide</u>					
7	To bottoms and sides of trenches etc	m2	110		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>25MPa/19mm unreinforced concrete</u>					
8	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	11		
9	Extra over for T-intersection	No	1		
<u>TEST CUBES</u>					
<u>Concrete strength test cubes</u>					
10	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	4		
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<u>EXTERNAL WORK</u>			
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<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p>			
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Retaining walls

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Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	58		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	15		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	1		
4	Hard rock	m3	1		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	82		
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	Risk of collapse of excavations				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	29		
	<u>Sundries</u>				
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under strip footings, 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	58		
	<u>FILLING, ETC:</u>				
	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
9	Backfilling behind retaining walls	m3	17		
	<u>SOIL POISONING</u>				
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>				
10	Trenches	m2	29		
11	Bottom side of the trenches	m2	58		
	<u>TEST</u>				
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	<u>Allow for testing</u>				
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith.	No	4		
	<u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>15MPa/19mm unreinforced concrete</u>				
13	Surface blinding under footings and bases	m3	3		
	<u>25MPa/19mm reinforced concrete</u>				
14	Strip footings	m3	10		
15	Infill to cavity of hollow walls	m3	9		
	<u>TEST CUBES</u>				
	<u>Concrete strength test cubes</u>				
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	4		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0,55		
	<u>Fabric reinforcement</u>				
18	Type 617 fabric reinforcement in concrete infill to walls	m2	87		
	<u>BRICKWORK (PROVISIONAL)</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	320mm Hollow walls of two half brick skins	m2	87		
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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	12		
<u>2.5mm Brickwork reinforcement</u>					
21	75mm Wide reinforcement built in horizontally	m	686		
22	Butterfly wall ties	No	384		
<u>FACE BRICKWORK</u>					
<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for face brickwork	m2	87		
<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>					
24	320mm Copings on top of hollow walls	m	58		
<u>Sundries</u>					
<u>Waterproofing membrane</u>					
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	87		
<u>PVC-U soil and vent pipes</u>					
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43		
Carried to Collection				R	
Section No. 5 Bill No. 2 Retaining walls THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE					

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 5 - MATSEDI PRIMARY SCHOOL</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>PAVING, ETC</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><u>General</u></p> <p>The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed</p> <p><u>Site clearance</u></p> <p>All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent</p>			
<p>Carried to Collection</p>		R	
<p>Section No. 5 Bill No. 3 Paving THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>			

Filling (General)

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

CBR and indicator tests

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior commencement of any placement thereof and/or filling done therewith

Density tests

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

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- **Filling to form building platforms, etc:**
1 Test per 200m² plan area per each 150mm thick layer

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

Keeping excavations free from water:

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

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Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

- Earth mattresses, building platforms, etc:

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

SANS 1200 Specification (General)

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

Measurement and payment

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

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Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

PAVING

Paving to ablution block areas

EARTHWORKS

Site clearance

- | | | | | |
|---|--|----|-----|--|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 120 | |
|---|--|----|-----|--|

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

- | | | | | |
|---|-----------------------------|----|----|--|
| 2 | Reduced levels under floors | m3 | 18 | |
|---|-----------------------------|----|----|--|

Extra over all excavations for carting away

- | | | | | |
|---|--|----|----|--|
| 3 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 18 | |
|---|--|----|----|--|

Keeping excavations free of water

- | | | | | |
|---|---------------------------------------|--|------|--|
| 4 | Keeping excavations free of all water | | Item | |
|---|---------------------------------------|--|------|--|

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**OMITTED SCOPE OF WORKS
SAFE PROGRAMME
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CLUSTER OF SIX (6) SCHOOLS**

	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
5	Upper selected layer	m3	18		
	<u>Earth filling supplied by the contractor under paving areas, etc</u>				
6	20mm Thick coarse river sand under paving	m2	120		
	<u>Compaction of surfaces</u>				
7	Compaction of ground surfaces under paved areas 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	120		
	<u>Prescribed density tests on filling</u>				
8	Tests to determine the degree of compaction, etc. of ground or filling	No	4		
	<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>				
9	Under paving etc	m2	120		
	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>				
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	120		
	<u>Concrete Kerbing</u>				
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**OMITTED SCOPE OF WORKS
SAFE PROGRAMME
TMT-DBE-23/24-LPSAFE-OMS-LPCL4
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<u>25MPa/19mm In-situ concrete edge beams</u>					
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	12		
<u>Sundries</u>					
12	Straight cutting of units to fit edge restraints	m	12		
<u>Temporary Chemical Toilet</u>					
<u>Supply, install, commission and remove temporary Structure</u>					
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1		
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 6 - LEGADIMANE PRIMARY SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 1</u>			
<u>STORM WATER DRAINAGE</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cleaning-up of disturbed areas</u>			
The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent			
<u>Concrete general</u>			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Concrete V-channels</u>			
Channels to be cast into alternate sections of 1.5m to form construction joint between panels			
Carried to Collection			
Section No. 6 Bill No. 1 Storm water drainage THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE			R

<p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>CONCRETE STORMWATER V DRAINAGE</u></p> <p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>Site clearance</u></p> <p>Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p> <p>Excavation in earth not exceeding 2m deep</p> <p>Shallow trenches including forming shaped bottoms and spreading excavated material over site</p> <p><u>Risk of collapse of excavations</u></p> <p>Sides of trench and hole excavations not exceeding 1,5m deep</p> <p><u>Sundries</u></p> <p><u>Keeping excavations free of water</u></p> <p>Keeping excavations free of water other than subterranean water</p>		<p>m2</p> <p>m3</p> <p>m2</p>	<p>177</p> <p>80</p> <p>35</p>	<p>Item</p>
<p>Carried to Collection</p>				
<p>Section No. 6 Bill No. 1 Storm water drainage THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>				

<u>Compaction of surfaces</u>				
5	Compaction of ground surface under V-drains, 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	266	
<u>Compaction of surfaces</u>				
6	Compaction of ground surface under V-drains, 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	266	
<u>TESTS</u>				
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
7	"Modified AASHTO Density" test	No	6	
<u>Soil insecticide</u>				
8	To bottoms and sides of trenches etc	m2	266	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>25MPa/19mm unreinforced concrete</u>				
9	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	27	
10	Extra over for T-intersection	No	2	
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<u>TEST CUBES</u>							
<u>Concrete strength test cubes</u>							
11	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	4				
<u>High tensile steel reinforcement to structural concrete work</u>							
<u>REINFORCEMENT (PROVISIONAL)</u>							
<u>Fabric reinforcement</u>							
12	Type 617 fabric reinforcement in concrete infill to walls	m2	266				
<u>Sundries</u>							
<u>Finishing top surfaces of concrete smooth with a wood float</u>							
13	V-drains to falls	m2	266				
<u>Rough formwork to sides</u>							
14	Edges of V-drains not exceeding 300mm high or wide	m	355				
<u>Inlet/outlet structures</u>							
15	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2				
16	Extra over for fair stopped end	No	1				
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OMITTED SCOPE OF WORKS
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Section No. 6

Bill No. 1

Storm water drainage

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Section No. 6

Bill No. 1

Storm water drainage

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 6 - LEGADIMANE PRIMARY SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 2</u>			
<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"			
"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness			
"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m ³ in volume			
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Retaining walls

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Cleaning-up of disturbed areas

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Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	102		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	25		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	3		
4	Hard rock	m3	1		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	143		
Carried to Collection				R	
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**OMITTED SCOPE OF WORKS
SAFE PROGRAMME
TMT-DBE-23/24-LPSAFE-OMS-LPCL4
CLUSTER OF SIX (6) SCHOOLS**

	<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	51		
	<u>Sundries</u>				
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under strip footings, 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	102		
	<u>FILLING, ETC:</u>				
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
9	Backfilling behind retaining walls	m3	31		
	<u>SOIL POISONING</u>				
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>				
10	Trenches	m2	51		
11	Bottom side of the trenches	m2	102		
	<u>TEST</u>				
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	<u>Allow for testing</u>				
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith.	No	6		
	<u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>15MPa/19mm unreinforced concrete</u>				
13	Surface blinding under footings and bases	m3	5		
	<u>25MPa/19mm reinforced concrete</u>				
14	Strip footings	m3	18		
15	Infill to cavity of hollow walls	m3	15		
	<u>TEST CUBES</u>				
	<u>Concrete strength test cubes</u>				
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	4		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0,97		
	<u>Fabric reinforcement</u>				
18	Type 617 fabric reinforcement in concrete infill to walls	m2	153		
	<u>BRICKWORK (PROVISIONAL)</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	320mm Hollow walls of two half brick skins	m2	153		
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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	12		
<u>2,5mm Brickwork reinforcement</u>					
21	75mm Wide reinforcement built in horizontally	m	1.197		
22	Butterfly wall ties	No	560		
<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for face brickwork	m2	153		
<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>					
24	320mm Copings on top of hollow walls	m	102		
<u>Sundries</u>					
<u>Waterproofing membrane</u>					
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	153		
<u>PVC-U soil and vent pipes</u>					
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43		
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 6 - LEGADIMANE PRIMARY SCHOOL</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>PAVING, ETC</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><u>General</u></p> <p>The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed</p> <p><u>Site clearance</u></p> <p>All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent</p>			
<p style="text-align: right;">Carried to Collection</p>		R	
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Filling (General)

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior to the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

CBR and indicator tests

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior to commencement of any placement thereof and/or filling done therewith

Density tests

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

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- **Filling to form building platforms, etc:**
1 Test per 200m² plan area per each 150mm thick layer

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

Keeping excavations free from water:

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

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Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

- Earth mattresses, building platforms, etc:

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

SANS 1200 Specification (General)

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

Measurement and payment

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

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Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

PAVING

Paving to ablution block areas

EARTHWORKS

Site clearance

- | | | | |
|---|--|----|-----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 140 |
|---|--|----|-----|

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

- | | | | |
|---|-----------------------------|----|----|
| 2 | Reduced levels under floors | m3 | 14 |
|---|-----------------------------|----|----|

Extra over all excavations for carting away

- | | | | |
|---|--|----|----|
| 3 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 14 |
|---|--|----|----|

Keeping excavations free of water

- | | | | |
|---|---------------------------------------|--|------|
| 4 | Keeping excavations free of all water | | Item |
|---|---------------------------------------|--|------|

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	<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>				
5	Upper selected layer	m3	14		
	<u>Earth filling supplied by the contractor under paving areas, etc</u>				
6	20mm Thick coarse river sand under paving	m2	140		
	<u>Compaction of surfaces</u>				
7	Compaction of ground surfaces under paved areas 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	140		
	<u>Prescribed density tests on filling</u>				
8	Tests to determine the degree of compaction, etc. of ground or filling	No	6		
	<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>				
9	Under paving etc	m2	140		
	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>				
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	140		
	<u>Concrete Kerbing</u>				
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**OMITTED SCOPE OF WORKS
SAFE PROGRAMME
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<u>25MPa/19mm In-situ concrete edge beams</u>					
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	10		
<u>Sundries</u>					
12	Straight cutting of units to fit edge restraints	m	10		
<u>Temporary Chemical Toilet</u>					
<u>Supply, install, commission and remove temporary Structure</u>					
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1		
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 7 - TSHIKHOVHOKHOVHO</u> <u>PRIMARY SCHOOL</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>BILL NO. 1</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p>			
<p style="text-align: right;">Carried to Collection</p>			
<p>Section No. 7 Bill No. 1 Storm water drainage THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE</p>			

<u>Formwork</u>			
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
<u>CONCRETE STORMWATER V DRAINAGE</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Site clearance</u>			
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	128	
<u>Excavation in earth not exceeding 2m deep</u>			
Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	58	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	26	
<u>Sundries</u>			
<u>Keeping excavations free of water</u>			
Keeping excavations free of water other than subterranean water		Item	
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<u>Compaction of surfaces</u>				
5	Compaction of ground surface under V-drains, 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	192	
<u>TESTS</u>				
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
6	"Modified AASHTO Density" test	No	4	
<u>Soil insecticide</u>				
7	To bottoms and sides of trenches etc	m2	192	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>25MPa/19mm unreinforced concrete</u>				
8	V-shaped channel size 1500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork.	m3	19	
9	Extra over for T-intersection	No	2	
<u>TEST CUBES</u>				
<u>Concrete strength test cubes</u>				
10	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	6	
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	<u>High tensile steel reinforcement to structural concrete work</u>				
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
11	Type 617 fabric reinforcement in concrete infill to walls	m2	192		
	<u>Sundries</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
12	V-drains to falls	m2	192		
	<u>Rough formwork to sides</u>				
13	Edges of V-drains not exceeding 300mm high or wide	m	256		
	<u>Inlet/outlet structures</u>				
14	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2		
15	Extra over for fair stopped end	No	2		
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Storm water drainage

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<u>SECTION NO. 7 - TSHIKHOVHOKHOVHO PRIMARY SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 2</u>			
<u>RETAINING WALLS</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"			
"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness			
"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m ³ in volume			
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Subterranean water

No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

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<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>RETAINING WALLS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	21		
<u>Excavation in earth not exceeding 2m deep</u>					
2	Shallow trenches including spreading excavated material over site	m3	5		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	1		
4	Hard rock	m3	0,3		
<u>Back excavation of vertical sides of excavations in earth for working space</u>					
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	29		
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	<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	11		
	<u>Sundries</u>				
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under strip footings, 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	21		
	<u>FILLING, ETC:</u>				
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
9	Backfilling behind retaining walls	m3	6		
	<u>SOIL POISONING</u>				
	<u>Saturate excavations, etc. with ant poisoning consisting of a 5% solution of Pentachlorophenol in mineral oil, sprayed or poured onto ground with a can with a coarse rose using 4 litres of moisture to each square metre of surface area.</u>				
10	Trenches	m2	11		
11	Bottom side of the trenches	m2	21		
	<u>TEST</u>				
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	<u>Allow for testing</u>				
12	Allow for the provision of density tests to be carried out by the Contractor and pay all charges in connection therewith.	No	4		
	<u>CONCRETE IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>15MPa/19mm unreinforced concrete</u>				
13	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm reinforced concrete</u>				
14	Strip footings	m3	4		
15	Infill to cavity of hollow walls	m3	3		
	<u>TEST CUBES</u>				
	<u>Concrete strength test cubes</u>				
16	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0,20		
	<u>Fabric reinforcement</u>				
18	Type 617 fabric reinforcement in concrete infill to walls	m2	32		
	<u>BRICKWORK (PROVISIONAL)</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	320mm Hollow walls of two half brick skins	m2	32		
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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
20	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	3		
<u>2,5mm Brickwork reinforcement</u>					
21	75mm Wide reinforcement built in horizontally	m	247		
22	Butterfly wall ties	No	112		
<u>FACE BRICKWORK</u>					
<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for face brickwork	m2	32		
<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>					
24	320mm Copings on top of hollow walls	m	21		
<u>Sundries</u>					
<u>Waterproofing membrane</u>					
25	'Bidum U44' Geotextile membrane laid against the brickwall as the work proceeds.	m2	32		
<u>PVC-U soil and vent pipes</u>					
26	50mm Pipes, 450mm long, through 320mm hollow wall	No	43		
Carried to Collection				R	
Section No. 7					
Bill No. 2					
Retaining walls					
THE MVULA TRUST					
DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE					

OMITTED SCOPE OF WORKS
SAFE PROGRAMME
TMT-DBE-23/24-LPSAFE-OMS-LPCL4
CLUSTER OF SIX (6) SCHOOLS

Section No. 7

Bill No. 2

Retaining walls

COLLECTION

Total Brought Forward from Page No.

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No**

Amount

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Section No. 7

Bill No. 2

Retaining walls

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 7 - TSHIKHOVHOKHOVHO PRIMARY SCHOOL</u>			
<u>EXTERNAL WORK</u>			
<u>BILL NO. 3</u>			
<u>PAVING, ETC</u>			
<u>PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "General Preambles for Trades" (2017 Edition)			
<u>SUPPLEMENTARY PREAMBLES</u>			
The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described			
<u>General</u>			
The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed			
Carried to Collection			R
Section No. 7 Bill No. 3 Paving THE MVULA TRUST DEPARTMENT OF EDUCATION - LIMPOPO PROVINCE			

Site clearance

All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent

Filling (General)

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

CBR and indicator tests

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior commencement of any placement thereof and/or filling done therewith

Carried to Collection

Section No. 7

Bill No. 3

Paving

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Density tests

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

- **Filling to form building platforms, etc:**
1 Test per 200m² plan area per each 150mm thick layer

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

Keeping excavations free from water:

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

Carting away of excessive and/or unsuitable excavated material

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

Carried to Collection

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Paving

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The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

- Earth mattresses, building platforms, etc:

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

SANS 1200 Specification (General)

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

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The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

Measurement and payment

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

PAVING

Paving to ablution block areas

EARTHWORKS

Site clearance

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	59
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EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

2	Reduced levels under floors	m3	9
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Carried to Collection

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Paving

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**OMITTED SCOPE OF WORKS
SAFE PROGRAMME
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CLUSTER OF SIX (6) SCHOOLS**

<u>Extra over all excavations for carting away</u>					
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	9		
<u>Keeping excavations free of water</u>					
4	Keeping excavations free of all water		Item		
<u>Earth filling (G5 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>					
5	Upper selected layer	m3	9		
<u>Earth filling supplied by the contractor under paving areas, etc</u>					
6	20mm Thick coarse river sand under paving	m2	59		
<u>Compaction of surfaces</u>					
7	Compaction of ground surfaces under paved areas 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	59		
<u>Prescribed density tests on filling</u>					
8	Tests to determine the degree of compaction, etc. of ground or filling	No	4		
<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>					
9	Under paving etc	m2	59		
Carried to Collection				R	
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**OMITTED SCOPE OF WORKS
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CLUSTER OF SIX (6) SCHOOLS**

	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>				
10	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	59		
	<u>Concrete Kerbing</u>				
	<u>25MPa/19mm In-situ concrete edge beams</u>				
11	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	8		
	<u>Sundries</u>				
12	Straight cutting of units to fit edge restraints	m	8		
	<u>Temporary Chemical Toilet</u>				
	<u>Supply, install, commission and remove temporary Structure</u>				
13	Supply, install, commission, clean on regular basis and remove after a period of 9 weeks mobile chemical toilets, as directed by the Principal Agent. This amount may be paid pro-rata as may be directed by the Principal Agent. The provision is for 12 toilet cubicle per school	No	1		
Carried to Collection					
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4	Mogadime Sec School - Construction Works	117	
5	Matsedi P School - Construction Works	139	
6	Legadimane P School - Construction Works	161	
7	Tshikhovhokhovho P School - Construction Works	183	
SUB-TOTAL			R
<u>BUDGETARY ALLOWANCE</u>			
<u>ADD: CONTINGENCY ALLOWANCE TO THE CONTRACT</u>			
<u>CONTINGENCIES</u>			
Allow 10% Contingency Amount for the unforeseen and the sum provided is under the sole control of the client and upon approval by the Client Representative and deducted in whole or in part.			R
SUB-TOTAL			R
<u>Add:</u> Value Added Tax at 15%			R
Carried to Form of Tender			R
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