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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 is 5 working days after site hand over.

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

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

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

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

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

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

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

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

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

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

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

and

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

Item

OBJECTIVE AND PREPARATION

1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A3.0 DOCUMENTS

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

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1	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<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

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

Fixed: _____ Value related: _____ Time related: _____

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1	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A13.0 No clause</p>	N/A		
4	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.2.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p>			
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14.2.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4			
	Fixed: _____ Value related: _____ Time related: _____	Item		
1	A16.0 ACCESS TO THE WORKS Clause 16.0 Fixed: _____ Value related: _____ Time related: _____	Item		
2	A17.0 CONTRACT INSTRUCTIONS Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors " Fixed: _____ Value related: _____ Time related: _____	Item		
3	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed: _____ Value related: _____ Time related: _____	Item		
4	A19.0 ASSIGNMENT Clause 19.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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1	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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COMPLETION

1 A24.0 PRACTICAL COMPLETION

Clause 24.0

Fixed: _____ Value related: _____ Time
related: _____

Item

2 A25.0 WORKS COMPLETION

Clause 25.0

Fixed: _____ Value related: _____ Time
related: _____

Item

3 A26.0 FINAL COMPLETION

Clause 26.0

Fixed: _____ Value related: _____ Time
related: _____

Item

4 A27.0 LATENT DEFECTS LIABILITY PERIOD

Clause 27.0

Fixed: _____ Value related: _____ Time
related: _____

Item

5 A28.0 SECTIONAL COMPLETION

Clause 28.0

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time
related: _____

Item

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1	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>PAYMENT</u></p>	Item	
2	<p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>		R

1	<p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <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>Add the following clauses: 33.2.9 to 33.2.13:</p> <p>33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract</p> <p>33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract</p> <p>33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract</p> <p>33.2.12 the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract</p> <p>33.2.13 the contractor's estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CANCELLATION</u></p>	Item	
3	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p>		
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	<p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.3 Remove reference to "No clause", and replace "principal agent" with "employer"</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
1	<p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.3.5 Replace "ninety (90)" with "one hundred and twenty (120) and 38.5.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<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>	Item		
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38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 39.0

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

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

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1	<p><u>DISPUTE</u></p> <p>A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p> <p>A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CONTRACT VARIABLES</u></p> <p>A42.0 THE SCHEDULE (C1.2)</p> <p>Clause 42.0</p> <p>Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2		Item		
3		Item		
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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

1 B1.1 Definitions and interpretation

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

2 B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

3 B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

4 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

5 B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

6 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

7 B2.6 Tender submission

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

Fixed: _____ Value related: _____ Time related: _____

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B3.0 THE SITE

1 **B3.1 Defined works area**

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **B3.2 Geotechnical investigation**

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

4 **B3.4 Existing premises occupied**

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

7 **B3.7 Services - known**

Fixed: _____ Value related: _____ Time
related: _____

Item

8 **B3.8 Services - unknown**

Fixed: _____ Value related: _____ Time
related: _____

Item

9 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

Item

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R

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1	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item		
2	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B4.0 MANAGEMENT OF CONTRACT</u>				
3	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____	Item		
4	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item		
5	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item		
6	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
7	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>				
8	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item		
Carried to Collection				
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1	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item	
2	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item	
3	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
4	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item	
5	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item	
6	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item	
7	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item	
8	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item	
9	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item	
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B7.0 TEMPORARY SERVICES

1 **B7.1 Location**

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **B7.2 Water**

Fixed: _____ Value related: _____ Time
related: _____

Item

3 **B7.3 Electricity**

Fixed: _____ Value related: _____ Time
related: _____

Item

4 **B7.4 Telecommunication facilities**

Fixed: _____ Value related: _____ Time
related: _____

Item

5 **B7.5 Ablution facilities**

Fixed: _____ Value related: _____ Time
related: _____

Item

B8.0 PRIME COST AMOUNTS

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

Fixed: _____ Value related: _____ Time
related: _____

Item

**B9.0 ATTENDANCE ON N/S
SUBCONTRACTORS**

7 **B9.1 General attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

8 **B9.2 Special attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

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1	<p>B9.3 Commissioning - fuel, water and electricity</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B10.0 FINANCIAL ASPECTS</u></p>	Item		
2	<p>B10.1 Statutory taxes, duties and levies</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>B10.2 Payment for preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>B10.3 Adjustment of preliminaries</p> <p>Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>B10.4 Payment certificate cash flow</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B11.0 GENERAL</u></p>	Item		
6	<p>B11.1 Protection of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>B11.2 Protection / isolation of existing / sectionally occupied works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item		
2	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item		
3	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
4	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
5	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item		
6	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item		
7	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item		
8	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item		
9	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item		
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1	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B12.0 SCHEDULE OF VARIABLES</u></p>	Item		
2	<p>B12.1 Schedule of variables</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries</p> <p>Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities [2.2] The quantities are provisional</p> <p style="text-align: right;">YES</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i></p> <p style="text-align: right;">YES</p> <p>12.1.3 Interests of agents [2.4] Details:</p> <p>12.1.4 Defined works area [3.1] Details:</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>	Item		
			R	

[illegible]

12.1.14 **Main notice board**

[6.5] Specific requirements:

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

12.1.15 **Subcontractors' notice board**

[6.6] A notice board is required

NO

Specific requirements:

12.1.16 **Water**

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

NO

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

NO

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

YES

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12.1.17 Electricity	[7.3] Option A (by contractor)	NO			
	Option B (by employer - free of charge)	NO			
	Option C (by employer - metered)	YES			
12.1.18 Telecommunications	[7.4] Telephone				
		YES			
	Facsimile				
		YES			
	E-mail				
		YES			
12.1.19 Ablution facilities	[7.5] Option A (by contractor)	YES			
	Option B (by employer)	NO			
12.1.20 Protection of existing/sectionally occupied works	[11.2] Protection is required	NO			
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12.1.21 Special attendance [9.2] Subcontractor (1) details:				
Subcontractor (2) details:				
Subcontractor (3) details:				
Subcontractor (4) details:				
12.1.22 Protection of the works [11.1] Specific requirements:				
12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent				
12.1.24 Environmental disturbance [11.6] Specific requirements:				
12.2 POST-TENDER INFORMATION				
12.2.1 Payment of preliminaries [10.2] Option A (prorated)	NO			
Option B (calculated)				
	YES			
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12.2.2 ***Adjustment of preliminaries***
[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES

12.2.3 ***Additional agreed preliminaries items***
Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 C1.0 CONTRACT DRAWINGS

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 C2.0 GENERAL PREAMBLES

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

Fixed: _____ Value related: _____
Time related: _____

Item

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1	<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>				
2	<p>C4.0 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>	Item			
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C4.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.4 ACCESS TO CONDOMS

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

Fixed: _____ Value related: _____

Time related: _____

Item

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C4.5 MONITORING

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

Fixed: _____ Value related: _____
Time related: _____

Item

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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

[illegible]

PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

[illegible]

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Ordinary demolitions

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

BRICKWORK

- | | | | | | |
|---|--|----|----|--|--|
| 1 | Demolish half brick external wall including finishes and cart away demolished materials. | m2 | 10 | | |
|---|--|----|----|--|--|

CARPENTRY AND JOINERY

Roof structures

- | | | | | | |
|---|--|---|-----|--|--|
| 2 | Demolish and cart away timber purlins. | m | 108 | | |
|---|--|---|-----|--|--|

Timber doors and frames

- | | | | | | |
|---|---|----|----|--|--|
| 3 | Take out from one brick wall and cart away single timber door and frame size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere). | No | 18 | | |
|---|---|----|----|--|--|

CEILINGS AND PARTITIONS

Internally

- | | | | | | |
|---|---|----|----|--|--|
| 4 | Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, bandering, supporting structures, etc. | m2 | 35 | | |
| 5 | Take down and cart away gypsum coved cornice. | m | 66 | | |

FLOOR COVERINGS

- | | | | | | |
|---|--|----|----|--|--|
| 6 | Strip from concrete floors vinyl floor tiling and cart away including preparing screed for new floor covering (elsewhere). | m2 | 16 | | |
|---|--|----|----|--|--|

IRONMONGERY

General ironmongery

- | | | | | | |
|---|--|----|---|--|--|
| 7 | Take out from steel door and cart away, cylinder or mortice lockset. | No | 5 | | |
|---|--|----|---|--|--|

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PROVISIONAL BILLS OF QUANTITIES

THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

Section No. 2
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ALTERATIONS

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PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

[illegible]

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL No. 3</u>			
	<u>WATERPROOFING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>LIQUID WATERPROOFING (Labour intensive)</u>			
	<u>Two coats "ABE Brickseal"</u>			
1	Vertically on bagged surface of brickwork.	m2	196	
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Sundry elements</u>			
2	Seal and point around metal window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	77	
3	Seal with an approved anti-fungicidal white silicone sealant junction between sanitary fitting and worktop and/or wall tiling.	m	58	
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	Section No. 2			
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	WATERPROOFING			
	PROVISIONAL BILLS OF QUANTITIES			

Carried to Collection

R

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

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

(a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.

(b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.

(c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.

(d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Seperate connection details for hip, valley and jack rafters.

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Section No. 2

Bill No. 5

CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

R

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:
- "The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Fixing:

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

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

Purlins, bracing, etc.

Wrot softwood :

1	50 x 76mm Purlins.	m	108
2	38 x 38 x 152mm Long cleat spiked to rafter foot.	No	20
3	50 x 76 x 500mm Long sprocket spiked to timber purlin.	No	24

Sundries:

4	Hurricane clip fixed to purlin and rafter.	No	120
---	--	----	-----

JOINERY

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THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Pressed fibre-cement:

1	12 x 228mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	18
2	80 x 275mm Barge board drilled and brass screwed to timber purlins including galvanised steel H-profile jointing strips, etc.	m	26

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CARPENTRY AND JOINERY

PROVISIONAL BILLS OF QUANTITIES

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Cornices

Work to existing cornices

1	Check gypsum plasterboard cornice, realign where necessary and ensure cornice is securely nailed to brandering or wall.	m	24		
	<u>Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:</u>				
2	75mm Coved cornice.	m	66		

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Section No. 2
Bill No. 6
CEILINGS, PARTITIONS AND ACCESS FLOORING

PROVISIONAL BILLS OF QUANTITIES

[illegible]

**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<u>IRONMONGERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>IRONMONGERY TO TIMBER</u>			
	<u>Hinges, bolts, etc.</u>			
1	100 x 75mm Heavy duty brass butt hinges.	No	36	
	<u>Push plates, kicking plates, indicator plates, etc.</u>			
	<u>3mm Thick x 32mm high blue perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame</u>			
2	Sign with "MALE ABLUTIONS" enscribed.	No	1	
3	Sign with "FEMALE ABLUTIONS" enscribed.	No	1	
4	Sign with "DISABLE" enscribed.	No	1	
5	Sign with "STAFF" enscribed.	No	2	
	<u>Door stops</u>			
6	Black rubber door stop plugged to wall or floor.	No	23	
	<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
7	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish.	No	2	
8	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt.	No	21	
	Carried to Collection			R
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PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<u>PLASTERING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>SCREEDS</u>			
	<u>GRANOLITHIC</u>			
	<u>1:3 Cement screeds and paving</u>			
1	25mm Thick screed in patching to floors.	m2	35	
	<u>Skirtings</u>			
2	75mm High coved granolithic skirting in patches to receive finish (elsewhere measured).	m	153	
	<u>PLASTER</u>			
	<u>One coat internal 1:4 cement plaster on :</u>			
3	Brick wall in narrow widths not exceeding 300mm wide.	m2	19	
4	Walls in patching.	m2	50	
	<u>One coat external 1:5 cement plaster on :</u>			
5	Brick wall in narrow widths not exceeding 300mm wide.	m2	0.1	
6	Walls in patching.	m2	24	
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THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

1	22mm Ditto.	m	83
2	15mm Pipe chased into brickwork.	m	78
3	22mm Ditto.	m	45
<u>Extra over copper pipes for brass compression fittings</u>			
4	15mm Fittings.	No	144
5	22mm Fittings.	No	114
<u>Connections</u>			
<u>Connection of new to existing pipes</u>			
6	Connection of 32mm diameter HDPE to 22mm diameter polyprop pipes including all necessary reducers, saddles, etc.	No	1
<u>Testing :</u>			
7	Allow for testing the preceding water supply installation in accordance with the National Building Regulations.		Item
<u>SOIL DRAINAGE</u>			
<u>uPVC Pipes with solvent welded straight joints :</u>			
8	50mm Pipes.	m	63
9	110mm Pipes.	m	69
<u>Extra over uPVC pipes for solvent welded fittings :</u>			
10	50mm Plain bend.	No	34
11	110mm Plain bend.	No	33
12	50mm Access bend.	No	17
13	110mm Access bend.	No	22

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PLUMBING AND DRAINAGE

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Gulleys, grease traps, etc.</u>					
1	100mm Diameter uPVC gulley trap with universal gulley head set flush in with finished pavement level including encasing in 15MPa concrete 100mm thick all round.	No	2		
2	430 x 430 x 175mm Precast concrete gulley top, bedded over gulley in cement mortar.	No	2		
<u>Testing :</u>					
3	Allow for testing the preceding sanitary plumbing installation in accordance with the National Building Regulations.			Item	
<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>					
<u>Sanitary fittings, etc.</u>					
<u>Existing sanitary fittings</u>					
4	Tighten loose or replace missing bolts to hanger brackets, etc. to white glazed urinal and leave secure on completion.	No	1		
<u>White glazed vitreous china ware :</u>					
5	Rectangular washhand basin, size 560 x 405mm, with one tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts.	No	10		
6	Close coupled washdown suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flushpipe bedded to floor in 1:4 cement mortar mixture.	No	22		
7	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets .	No	7		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Sanitary fitting sundries</u>				
1	Satin chrome thief proof toilet roll holder, TR2, plugged to wall.	No	22		
2	Heavy-duty double-flap hinged toilet seat and cover.	No	22		
3	150 x 150mm White glazed soap dish.	No	10		
	<u>Grade 304 stainless steel ware :</u>				
4	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws.	No	2		
5	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws.	No	2		
	<u>Taps, valves, etc.</u>				
	<u>Solid cast brass taps, valves, etc.</u>				
6	15mm Brass ball-o-stop.	No	39		
7	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	10		
8	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	7		
9	22mm Brass non-return valve.	No	2		
	<u>Sundries</u>				
10	Service tap, mixer, etc. including changing washers and leave in perfect working condition.	No	1		
	<u>Waste unions, traps, etc.</u>				
	<u>Outlets, traps, etc :</u>				
11	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	10		
12	38mm Chromium plated urinal waste outlet.	No	8		
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PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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PREVIOUSLY PAINTED GYPSUM PLASTERBOARD

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

1	Internal ceiling boarding.	m2	18		
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PREVIOUSLY PAINTED FIBRE CEMENT

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

2	External cill not exceeding 300mm girth.	m	18		
---	--	---	----	--	--

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

3	Internal cill not exceeding 300mm girth.	m	18		
---	--	---	----	--	--

PREVIOUSLY PAINTED METALWORK

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

4	Steel door frames.	m2	10		
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5	Steel windows with burglar bars (both sides measured).	m2	22		
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PAINT ON TIMBER

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

6	Surfaces of flush panel doors.	m2	20		
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PREVIOUSLY UNPAINTED CERAMIC OR STAINLESS STEEL

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THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

Prime nail heads and H-section jointing strips and apply one coat universal undercoat and two coats eggshell enamel paint on :

2	Internal fibre cement cills not exceeding 300mm girth.	m	1
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Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :

4	External fibre cement bargeboard including priming cover strips.	m2	9
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5	External fibre cement cills not exceeding 300mm girth.	m	1
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PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Hot dipped galvanised steel gates</u>				
1	Security fence double gate, size 3000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth.	No	1		
	<u>THE FOLLOWING IN WALKWAYS</u>				
	<u>EARTHWORKS</u>				
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
2	Reduced levels between buildings, retaining walls, etc.	m3	26		
	<u>Carting away of excavated material</u>				
3	Extra over all excavations for loading surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	26		
	<u>BASECOURSES</u>				
4	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	26		
	<u>Sundries</u>				
5	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	170		
	<u>Prescribed Testing</u>				
6	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	5		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Weedkillers, insecticides, etc.</u>					
<u>Soil insecticide in accordance with SANS 5859</u>					
1	Under paving, etc.	m2	170		
<u>PRECAST CONCRETE PAVERS</u>					
<u>Grey interlocking precast concrete pavers type S-A laid in herringbone pattern with header course perimeter margin</u>					
2	50mm Thick laid on and including 25mm sand bed treated with weed killer and cement/sand mixture swept into joints on completion.	m2	170		
<u>Sundries</u>					
3	Circular cutting on 50mm thick non bevelled concrete pavers.	m	28		
<u>Channelling, kerbing, edging, etc.</u>					
<u>Precast concrete kerbing</u>					
4	Precast semi-mountable concrete Fig 8B edge kerb size 300 x 175mm high cast in lengths not exceeding 1m and with expansion joints at not exceeding 10m centres finished smooth off the mould on all exposed surfaces bedded on and including minimum 50mm thick mass concrete 15 MPa base and backing including all necessary excavation, formwork, expansion joints, etc.	m	253		
5	Ditto, but circular on plan to not exceeding 4m radius.	m	28		
<u>THE FOLLOWING IN WATER SUPPLY</u>					
<u>ALTERATIONS TO EXISTING</u>					
6	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	3		
7	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	3		
8	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	3		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>PIPEWORK, ETC.</u>					
<u>Pipes, pipe fittings, etc.</u>					
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>					
1	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	163		
2	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	109		
<u>Extra over uPVC pipes for the following fittings</u>					
3	32mm bend.	No	22		
4	40mm bend.	No	11		
5	32mm Tee junction.	No	8		
6	40mm Tee junction.	No	5		
7	32 x 40 x 32mm Reducing tee.	No	3		
8	32 x 54 x 32mm Reducing tee.	No	3		
9	40 x 63 x 40mm Reducing tee.	No	3		
<u>Water supply valve or meter chambers</u>					
10	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	4		
<u>Taps, valves, etc.</u>					
11	32mm Gate valve.	No	6		
12	32mm Non return valve.	No	1		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Testing</u>				
1	Allow for testing the water supply installation in accordance with the National Building Regulations.		Item		
	<u>THE FOLLOWING IN SOIL DRAINAGE</u>				
	Pipe depth categories and manholes, catchpits, etc. have been measured to the designed invert levels of same. The Contractor is to allow for in his rates for any additional excavation, bedding, backfilling, making up levels, etc. he deems necessary to make up any difference to actual depth.				
	<u>EXISTING SERVICES</u>				
	Jet or high pressure cleaning to be carried out on subsurface piping, rodding eyes, manholes, etc. to be carried out to the complete satisfaction of the Engineer.				
	<u>Pipes</u>				
2	110mm Pipe fixed to walls.	m	10		
3	110mm Pipe not exceeding 1000mm deep.	m	102		
4	110mm Pipe exceeding 1000mm not exceeding 2000mm deep.	m	41		
	<u>Rodding eyes</u>				
5	110mm Diameter PVC rodding eye.	No	20		
	<u>Brick manholes</u>				
6	Manhole not exceeding 1000mm deep.	No	5		
7	Manhole exceeding 1000mm not exceeding 2000mm deep.	No	2		
	<u>ALTERATIONS TO EXISTING</u>				
8	Cut into and stop off temporarily 110mm soil pipe for new manhole construction (elsewhere).	No	1		
9	Cut into and stop off temporarily 110mm soil pipe for insertion of Tee junction (elsewhere).	No	1		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>NEW WORKS</u>					
<u>Class 34 Rigid uPVC socketed soil piping with bedding and filling in accordance with SABS 1200</u>					
1	110mm Pipe and excavation not exceeding 1000mm deep.	m	41		
2	110mm Pipe and excavation exceeding 1000mm not exceeding 2000mm deep.	m	10		
<u>Extra over uPVC pipes for fittings</u>					
3	110mm 90 Degree bend.	No	13		
4	110mm Junction.	No	3		
<u>Rodding eyes, etc.</u>					
5	PVC Rodding eye and frame and joint to top of 110mm uPVC pipe.	No	3		
<u>Sundries</u>					
6	300 x 300 x 75mm Precast concrete inspection eye marker slab set in position including excavations, carting away, ect.	No	4		
<u>MANHOLES, ETC.</u>					
7	Excavate for and build manhole size 1440 x 1440 x not exceeding 1000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	1		
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**PAKAMANI SENIOR SECONDARY SCHOOL
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1	Excavate for and build manhole size 1440 x 1440 x exceeding 1000mm not exceeding 2000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	2		
	<u>Cast iron covers and frames</u>				
2	Type 2A cast iron manhole cover and frame size 620mm diameter bedded on top of concrete slab in cement mortar.	No	3		
	<u>Testing</u>				
3	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.		Item		
	<u>THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>				
	<u>Rainwater harvesting (Labour intensive)</u>				
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
4	Reduced levels under solid floors.	m3	1		
5	Surface trenches.	m3	15		
	<u>Excavations in earth of more difficult character</u>				
6	Extra over excavations in earth for excavation in soft rock.	m3	2		
7	Extra over excavations in earth for excavation in hard rock.	m3	1		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Carting away of excavated material</u>				
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	9		
	<u>Risk of collapse of excavations</u>				
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	43		
	<u>Keeping excavations free of water</u>				
3	Allow for keeping the excavations free from water.		Item		
	<u>Filling, layerworks, etc.</u>				
4	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	7		
5	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	7		
	<u>Compaction of surfaces</u>				
6	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	16		
	<u>Tests</u>				
7	Allow for Mod AASHTO density tests on filling.	No	4.00		
	<u>Reinforced concrete 25MPa in:</u>				
8	Strip foundations cast against excavated surfaces.	m3	5		
9	Surface beds cast in panels including temporary formwork.	m3	2		
	<u>Sundries</u>				
10	Float surface of concrete to a wood float finish.	m2	16		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Rough formwork (use and waste) to concrete to:</u>				
1	Edge, riser, etc not exceeding 300mm high.	m	32		
	<u>High tensile welded steel mesh reinforcement :</u>				
2	Ref: 395 cast into concrete surfaces.	m2	14		
3	Ref: 395 cast into concrete strip footings.	m2	29		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
4	One brick wall.	m2	15		
5	One brick wall in foundations. (Provisional)	m2	15		
	<u>Brickwork sundries :</u>				
6	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	86		
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
7	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	15		
8	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	5		
	<u>Face brick copings, lintols, cills, etc.</u>				
9	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	32		
	<u>Movement joints</u>				
10	10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	10		
11	Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.	m	18		
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Ties, cramps, etc.

1	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut.
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No

4

2	38 x 1,6mm Galvanised hoop iron tie down, 1200mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.
---	--

No

16

250 Micron "Gunplas USB" green polyethylene sheeting
:

3 Laid flat under solid floor and over walls.

 m_2

14

Rainwater tanks:

4	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet , fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)
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No

4

5 Hole through top of tank lid for 100mm diameter pipe.

No

4

THE FOLLOWING IN SECURITY FENCING

SECURITY FENCING

The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.

"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions

Fencing

6	High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).
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1	High security galvanised, marine fusion bond coated, mesh fencing panel, size 2300 x 1800mm high fixed to posts (elsewhere).	No	1		
	<u>Posts</u>				
2	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	11		
3	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4		
4	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2		
	<u>Gates</u>				
5	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1		
	<u>Accessories</u>				
6	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40		
7	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1		
	<u>Sundries</u>				
8	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	0.1		
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	0.1		
<u>THE FOLLOWING IN GROUND STORAGE TANKS (ALL TRADES)</u>					
<u>EXCAVATIONS, FILLING, ETC.</u>					
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>					
2	Reduced levels under solid floors.	m3	11		
<u>Excavations in earth of more difficult character</u>					
3	Extra over excavations in earth for excavation in soft rock.	m3	1		
<u>Carting away of excavated material</u>					
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	12		
<u>Risk of collapse of excavations</u>					
5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	10		
<u>Keeping excavations free of water</u>					
6	Allow for keeping the excavations free from water.		Item		
<u>Foundation courses</u>					
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors.	m3	4		
8	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors.	m3	4		
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PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

FORMWORK

Edges, risers, ends and reveals

1	Edge, riser, etc exceeding 300mm high.	m2	11
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Projections, grooves, etc.

2	Labour and material in forming 25 x 25mm chamfer to exposed top edge of concrete.	m	24
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REINFORCEMENT (PROVISIONAL)

High tensile welded steel mesh reinforcement :

3	Ref: 395 cast into concrete surfaces.	m2	27
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PLUMBING AND DRAINAGE

ALTERATIONS TO EXISTING

4	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of reducing fitting (elsewhere).	No	2
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Pipes, pipe fittings, etc.

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

5	40mm Pipe.	m	90
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6	50mm Pipe.	m	12
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7	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10
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Extra over uPVC pipes for the following fittings

8	40mm Bend.	No	27
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9	50mm Bend.	No	5
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10	40mm Tee junction.	No	2
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11	63 x 40mm Straight reducer	No	2
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PAKAMANI SENIOR SECONDARY SCHOOL
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	<u>Taps, valves, etc.</u>				
1	40mm float valve kit fitted inside of tank.	No	3		
2	40mm In-line strainer.	No	2		
3	40mm Brass gate valve.	No	3		
4	40mm Brass non return valve.	No	1		
5	40mm Flanged resilient seal gate valve with cap top.	No	2		
6	40mm Flanged pressure reducing valve.	No	1		
	<u>Switch</u>				
7	Float switch fitted inside of tank.	No	2		
	<u>Connections</u>				
	<u>Connection of new to existing pipes</u>				
8	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2		
9	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2		
10	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1		
	<u>Rainwater tanks:</u>				
11	20 000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)	No	3		
12	Hole through side of tank for 40mm diameter pipe including adaptor.	No	6		
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<u>Ties, cramps, etc.</u>				
38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3		
38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	12		
<u>Water supply valve or meter chambers</u>				
Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	2		
<u>Pump and Pumphouse</u>				
Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.		Item		15,000.00
<u>ELECTRICAL CONNECTION</u>				
<u>Elevated Tank Electrical Works</u>				
Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item		30,000.00
<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>				
<u>Portable toilets</u>				
Supply and erecting of the portable chemical toilet during the duration of the contract.	No	5		
Servicing and maintain the five portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	20		
Removal of the portable chemical toilet on completion of the contract.	No	5		
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**PAKAMANI SENIOR SECONDARY SCHOOL
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Section No. 2

Bill No. 14

EXTERNAL WORKS

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EXTERNAL WORKS

PROVISIONAL BILLS OF QUANTITIES

PAKAMANI SENIOR SECONDARY SCHOOL
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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

ROOF TRUSS STRENGTHENING

- 1 Allow the Budgetary Allowance of R 7 500.00 (Seven Thousand Five Hundred Rand) for the additional bracing, sizing of members, etc. to the timber roof structure to the existing buildings to repair any damaged members to the roof trusses.

Item 7,500.00

REMOVAL TO THE EXISTING ABLUTIONS

- 2 Allow the Budgetary Allowance of R 10 000.00 (Ten Thousand Rand) for the demolishing and carting away the existing ablutions on site.

Item 10,000.00

Carried to Collection

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Bill No. 1
PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

PROVISIONAL BILLS OF QUANTITIES

**PAKAMANI SENIOR SECONDARY SCHOOL
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Section No. 3

Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ECT.

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PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

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**PAKAMANI SENIOR SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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	Sub - Total		R
	<u>CONTINGENCY PROVISIONS</u>		
	Allow the Budgetary Provision of R 100 000.00 (One Hundred Thousand Rand) for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.	Item	100,000.00
	Sub - Total		R
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R
	Sub - Total		R
	Carried to Form of Tender		R
	PROVISIONAL BILLS OF QUANTITIES		