

Item No	Quantity	Rate	Amount
<u>SECTION No. 1 - PRELIMINARIES</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>MEANING OF TERMS "TENDER / TENDERER"</u>			
Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"			
<u>PRELIMINARIES</u>			
The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"			
<u>PRICING OF PRELIMINARIES</u>			
Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities			
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SECTION 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	A4.0 DESIGN RESPONSIBILITY Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
2	A5.0 EMPLOYER'S AGENTS Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents. Fixed: _____ Value related: _____ Time related: _____	Item		
3	A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed: _____ Value related: _____ Time related: _____	Item		
4	A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 Fixed: _____ Value related: _____ Time related: _____	Item		
5	A8.0 WORKS RISK Clause 8.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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1	A9.0 INDEMNITIES Clause 9.0 Fixed:_____ Value related:_____ Time related:_____	Item	
2	A10.0 WORKS INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works (c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof		
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10.6 Injury to Persons or loss of or damage to Properties

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

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

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 A16.0 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A17.0 CONTRACT INSTRUCTIONS

Clause 17.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

3 A18.0 SETTING OUT OF THE WORKS

Clause 18.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 A19.0 ASSIGNMENT

Clause 19.0

Fixed: _____ Value related: _____ Time related: _____

Item

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1	A20.0 NOMINATED SUBCONTRACTORS Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums Fixed:_____ Value related:_____ Time related:_____	Item		
2	A21.0 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item		
3	A22.0 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item		
4	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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<u>COMPLETION</u>				
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	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed: _____ Value related: _____ Time related: _____ <u>PAYMENT</u>	Item		
2	A31.0 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0 Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8" Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion 31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Carried to Collection Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			R

Clause 31.12 is amended by deleting the following:

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

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

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

Add the following clauses: 33.2.9 to 33.2.13:

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 37.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 38.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 39.0

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

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

Fixed: _____ Value related: _____ Time related: _____

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1	<u>DISPUTE</u> 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: _____ <u>SUBSTITUTE PROVISIONS</u> A41.0 STATE CLAUSES Clause 41.0 Fixed: _____ Value related: _____ Time related: _____ <u>CONTRACT VARIABLES</u> A42.0 THE SCHEDULE (C1.2) Clause 42.0 Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract Fixed: _____ Value related: _____ Time related: _____	Item		
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)"

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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
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Fixed: _____ Value related: _____ Time
related: _____

Item

8	B3.8	Services - unknown
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Fixed: _____ Value related: _____ Time
related: _____

Item

9 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

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

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B7.0 TEMPORARY SERVICES1 **B7.1 Location**Fixed: _____ Value related: _____ Time
related: _____

Item

2 **B7.2 Water**Fixed: _____ Value related: _____ Time
related: _____

Item

3 **B7.3 Electricity**Fixed: _____ Value related: _____ Time
related: _____

Item

4 **B7.4 Telecommunication facilities**Fixed: _____ Value related: _____ Time
related: _____

Item

5 **B7.5 Ablution facilities**Fixed: _____ Value related: _____ Time
related: _____

Item

B8.0 PRIME COST AMOUNTS6 **B8.1 Responsibility for prime cost amounts**Fixed: _____ Value related: _____ Time
related: _____

Item

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

Item

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

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

12.1.5 **Geotechnical investigation**

[3.2] Details:

12.1.6 **Existing premises occupied**

[3.4] Specific requirements:

12.1.7 **Previous work - dimensional accuracy**

[3.5] Details:

12.1.8 **Previous work - defects**

[3.6] Details:

12.1.9 **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

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

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12.1.14 **Main notice board**

[6.5] Specific requirements:

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

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

Specific requirements: **NO**

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

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

Facsimile

YES

E-mail

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

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

[11.1] Specific requirements:

12.1.23 **Disturbance**

[11.5] Specific requirements:

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

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

[10.2] Option A (prorated)

NO

Option B (calculated)

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

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12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES12.2.3 **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

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1 **C3.0 TRADE NAMES**

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

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

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

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

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C4.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____

Time related: _____

Item

C4.4 ACCESS TO CONDOMS

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

Fixed: _____ Value related: _____

Time related: _____

Item

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C4.5 MONITORING

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

Fixed: _____ Value related: _____
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Item No	Quantity	Rate	Amount
<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY REQUIREMENTS</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).			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan.	Item	
2	Submission of the Health and Safety File.	Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item	
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<u>SECTION No. 2 - BUILDING WORKS</u>				
<u>BILL No. 1</u>				
<u>ALTERATIONS, DEMOLITIONS, ETC.</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>DEMOLITIONS</u>				
<u>Ordinary demolitions</u>				
Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor.				
<u>ROOF COVERINGS, ETC.</u>				
1	Take down and cart away galvanised IBR profile roof covering fixed to steel or timber.	m2	434	
2	Take down and cart away galvanised steel ridge capping.	m	93	
<u>CARPENTRY AND JOINERY</u>				
<u>Roof structures</u>				
3	Demolish and cart away timber rafters.	m	5	
4	Demolish and cart away timber purlin.	m	396	
<u>Skirting</u>				
5	Take down and cart away timber skirting.	m	420	
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Timber doors and frames

- | | | | |
|---|---|----|----|
| 1 | Take out from one brick wall and cart away single timber door and frame size 900mm wide x 2100mm high including preparing reveals to receive new frame (elsewhere). | No | 15 |
|---|---|----|----|

Externally

- | | | | |
|---|--|---|----|
| 2 | Take down and cart away 20 x 220mm timber/fibre cement fascia board. | m | 86 |
| 3 | Take down and cart away 20 x 220mm timber/fibre cement bargeboard. | m | 98 |

CEILINGS AND PARTITIONSInternally

- | | | | |
|---|---|----|-----|
| 4 | Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, bandering, supporting structures, etc. | m2 | 760 |
|---|---|----|-----|

FLOOR COVERINGS

- | | | | |
|---|--|----|-----|
| 5 | Strip from concrete floors vinyl floor tiling and cart away including preparing screed for new floor covering (elsewhere). | m2 | 759 |
|---|--|----|-----|

IRONMONGERYPinning Boards

- | | | | |
|---|--|----|----|
| 6 | Take down and cart away felt backing pinning boards, size approximately 5000 x 1500mm high including filling holes with cement mortar. | No | 10 |
|---|--|----|----|

Chalk Boards

- | | | | |
|---|---|----|----|
| 7 | Take down and cart away chalk boards, size approximately 4800 x 1200mm high including filling holes with cement mortar. | No | 10 |
|---|---|----|----|

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	<u>Lockers</u>				
1	Take down and cart away double door steel stationery cupboard, size approximately 900 x 450 x 1800mm high including filling holes with cement mortar.	No	12		
	<u>METALWORK</u>				
	<u>Panels and gates</u>				
2	Take out from concrete brickwork and cart away galvanised gate, size overall 1000 x 2150mm high, comprising galvanised steel perimeter framing filled with horizontal round bar including unbolting and removing hinge bracket assemblies.	No	3		
	<u>Windows and burglar screens</u>				
3	Take out from steel perimeter framing and cart away, glazed steel window size 1000 x 900mm high.	No	1		
4	Take out from steel perimeter framing and cart away, glazed steel window size 1500 x 900mm high.	No	1		
	<u>PLUMBING AND DRAINAGE</u>				
	<u>Externally</u>				
5	Take down and cart away Upvc half round gutter including accessories.	m	63		
6	Take down and cart away Upvc downpipes including accessories.	m	66		
	<u>PLASTERING</u>				
	<u>Floors</u>				
7	Hack up 25mm thick granolithic or floor screed and cart away including preparing surface bed to receive new screed (elsewhere).	m2	50		
	<u>Walls</u>				
8	Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere).	m2	215		
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- 1 Hack off plaster from brick wall reveals and cart away including preparing to receive new plaster (elsewhere).

m2

18

GLAZING

- 2 Take out 4mm thick glass from galvanised steel window including preparing frame to receive new glass (elsewhere).

m2

50

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REFURBISHMENT, PREPARATORY WORKS, ETC.Sundry brickwork refurbishment

- | | | | |
|---|--|----|----|
| 1 | Replace broken brick in existing face brick wall with matching brick bedded, jointed and pointed in cement mortar to match existing. | No | 50 |
|---|--|----|----|

General repair work

- | | | | |
|---|---|---|----|
| 2 | Hack plaster from brickwork for a width of 100mm either side of crack, nail galvanised stretch plate over crack with steel nails at 200mm centres to receive plaster (elsewhere). | m | 80 |
|---|---|---|----|

METAL WORKServicing of windows, doors, etc.

- | | | | |
|---|---|----|----|
| 3 | Service window, size approximately 1000 x 1500mm high with one centre pivot opening light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | 61 |
| 4 | Service window, size approximately 900 x 600mm high with two top hung opening light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | 4 |
| 5 | Service window, size approximately 1000 x 1000mm high with two side hung opening light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | 4 |
| 6 | Service window, size approximately 1500 x 1000mm high with two side hung opening light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | 2 |

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	<u>BILL No. 4</u>			
	<u>ROOF COVERINGS</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>EXISTING ROOF COVERINGS</u>			
	<u>Roof coverings</u>			
1	The Contractor is to allow hereunder for the thorough inspection of the insitu corrugated iron roof coverings, ridge cappings, accessories, etc. to ensure water tightness and complete integrity thereof including for replacement of missing drive screws, etc.	m2	1,070	
	<u>PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.</u>			
	<u>Metal roof sheeting</u>			
	<u>0,58mm Thick corrugated "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "kalahari red" finish to external face and standard backing coat to internal face :</u>			
2	Roof sheeting laid in patches to a pitch not exceeding 25° and secured to timber purlins at approximately 1 200mm centres including turning up sheet at ridge and turning down sheet at eaves.	m2	434	
	<u>Accessories</u>			
	<u>Accessories, etc. to match roof sheeting</u>			
3	Ridge capping 550mm girth.	m	93	
4	Broad flute serrated closer including polyclosers.	m	186	
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<u>CARPENTRY AND JOINERY</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>CARPENTRY</u>				
<u>Purlins, bracing, etc.</u>				
<u>Wrot softwood :</u>				
1	38 x 114mm Rafters.	m	5	
2	50 x 76mm Purlins.	m	396	
<u>Sundries:</u>				
3	Hurricane clip fixed to purlin and rafter.	No	150	
<u>JOINERY</u>				
<u>Skirtings</u>				
4	16 x 76mm Wrought meranti hollow-backed skirting plugged to wall, with 19mm matching quadrant bead at junction with floor.	m	420	
<u>Doors, windows, sashes, etc.</u>				
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Section No. 2 Bill No. 5 CARPENTRY AND JOINERY MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

Frames, rails, skirtings, etc.

Meranti timber door frames

Note :

2	Framed frame, to suit single door size 813 x 2032mm high overall.	No	15
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Sundries

Plastic, fibre cement, etc.

Work to existing fascia/barge boards

5	Check fibre cement barge boards complete, including joining strips, for alignment/rigidity and where necessary replace missing screws or joining strips to existing members to leave fascia boards secure to rafters.	m	20
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MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES

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	175
2	80 x 275mm Barge board drilled and brass screwed to timber purlins including galvanised steel H-profile jointing strips, etc.	m	108

Carried to Collection

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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Bill No. 5

CARPENTRY AND JOINERY

**MANZANA JUNIOR PRIMARY SCHOOL
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Item No		Quantity	Rate	Amount
<u>BILL No. 6</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>INTERNAL NAILED UP CEILINGS</u>				
<u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti coverstrips over joints:</u>				
1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	760	
<u>Trap doors</u>				
2	Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	7	
<u>Cornices</u>				
<u>Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:</u>				
3	75mm Coved cornice.	m	420	
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Section No. 2 Bill No. 6 CEILINGS, PARTITIONS AND ACCESS FLOORING MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

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Item No		Quantity	Rate	Amount
BILL No. 8				
<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	102 x 75 x 3mm Stainless steel two ball bearing butt hinge.	No	45	
<u>Hooks</u>				
2	150mm Brass cabin hook and eye screwed to and including 69 x 69 x 32mm chamfered hardwood block plugged to wall.	No	15	
<u>Door stops</u>				
3	Black rubber door stop plugged to wall or floor.	No	15	
<u>Locksets, etc. provided with two keys and to be masterkeyed</u>				
4	"Union Gower CZ682-24-61SC" or other equal approved satin chrome finish four lever lockset complete with chromium plated lever furniture.	No	15	
5	"CISA" or other approved 50mm brass padlock with stainless steel shackle.	No	5	
<u>IRONMONGERY TO METALWORK</u>				
<u>Locksets, etc. provided with two keys and to be masterkeyed</u>				
6	38mm Heavy duty brass padlock with stainless steel shackle.	No	15	
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Section No. 2 Bill No. 8 IRONMONGERY MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

	<u>Sundries</u>				
1	50mm Plastic key tag.	No	15		
	<u>PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.</u>				
	<u>Lockers</u>				
2	Powder coated "Grey" steel standard two-door stationary cupboard, size 900mm wide x 450mm deep x 1800mm high, provided complete with four shelves, chromium plated locking mechanism, four times bolted to brickwork with and including 10 x 85mm long masonry anchors.	No	12		
	<u>Writing boards</u>				
3	"Parrot Products" Educational board with deluxe aluminium perimeter frame, size overall 4890 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, size 2420 x 1230mm high, two outer fixed leaves, each size 1220 x 1230mm high, two double sided swing leaf panels fitted with heavy duty plastic hinges, each leaf size 1210 x 1230mm high, mounted to wall with and including proprietary wall fixings.	No	10		
	<u>Information notice boards</u>				
4	"Parrot Products BD 0476" Information board with felt backing and aluminium perimeter frame, size 2400 x 1200mm high, concealed mounted to wall with proprietary wall fixings.	No	20		
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IRONMONGERY

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Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<u>METALWORK</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>STEEL</u>			
	<u>GATES</u>			
	<u>Hot dipped galvanised mild steel</u>			
1	Single gate, size 1000mm wide x 2032mm high, the leaf formed of 40 x 40 x 2.5mm wall thickness mild steel pipe framing all round with mitred and welded angles, the gate filled in with 10 x 10mm mild steel bars welded, at each end, diagonally at 45 degrees to perimeter framing at not exceeding 100mm centres, the leaf fitted with lock housing (lock elsewhere measured) formed of 2.5mm thick mild steel flat plate, including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws.	No	15	
	<u>Windows, etc.</u>			
	<u>Hot dipped galvanised steel residential NC type windows provided complete with concealed friction stays, standard brass catches, pegs and slides and fitted with integral burglar proofing</u>			
2	Window type NC2, size 1022 x 949mm high.	No	1	
3	Window type NC4, size 1511 x 654mm high.	No	1	
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Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>GUTTERS, ETC</u>			
	<u>Roof gutters, rainwater pipes, etc.</u>			
	<u>White uPVC guttering, downpipes and accessories</u>			
1	125mm Half round eaves gutters fixed to fascia at maximum 600mm centres with and including proprietary fixings.	m	198	
2	Extra over eaves gutter for stopped end.	No	22	
3	Extra over eaves gutter for outlet for 80mm diameter downpipe.	No	22	
4	80mm Diameter rainwater pipes in continuous lengths fixed to walls with and including proprietary holderbats.	m	88	
5	Extra over rainwater pipe for bend.	No	44	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 2 copper pipes with straight compression fittings</u>			
6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	3	
7	22mm Ditto.	m	2	
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1	28mm Ditto.	m	1		
2	15mm Pipe chased into brickwork.	m	4		
3	22mm Ditto.	m	3		
	<u>Extra over copper pipes for brass compression fittings</u>				
4	15mm Fittings.	No	4		
5	22mm Fittings.	No	4		
6	28mm Fittings.	No	4		
	<u>Extra over copper pipes for capillary fittings with soldered joints</u>				
7	15mm Fittings.	No	8		
8	22mm Fittings.	No	6		
9	28mm Fittings.	No	2		
	<u>SOIL DRAINAGE</u>				
	<u>uPVC Pipes with solvent welded straight joints :</u>				
10	40mm Pipes.	m	3		
11	50mm Pipes.	m	4		
12	110mm Pipes.	m	3		
	<u>Pipe insulation and protection</u>				
	<u>Lagging</u>				
13	Preformed polyethylene foam lagging or similar approved insulation wrapped around 15mm pipe.	m	4		
14	Ditto, but around 22mm pipe.	m	3		
15	Ditto, but around 28mm pipe.	m	1		
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	<u>Extra over lagging for pipes not exceeding 30mm diameter:</u>				
1	15mm Fittings, valves, etc.	No	6		
2	22mm Fittings, valves, etc.	No	5		
3	28mm Fittings, valves, etc.	No	4		
	<u>Testing</u>				
4	Allow for testing the plumbing installation in accordance with the National Building Regulations.		Item		
	<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>				
	<u>Sanitary fittings, etc.</u>				
	<u>Grade 430 stainless steel ware :</u>				
5	"Vulcan 3044430" or other equal approved stainless steel double centre bowl pot sink, size overall 2250 x 650 x 910mm high, complete with 150mm high splashback to rear and stainless steel legs with adjustable foot pieces.	No	1		
	<u>Sanitary fitting sundries</u>				
6	19mm Diameter chromium plated rail 600mm long, complete with two matching end socket collars plugged to wall.	No	1		
	<u>Taps, valves, etc.</u>				
	<u>Solid cast brass taps, valves, etc.</u>				
7	15mm Brass stoptap.	No	1		
8	22mm Brass stoptap.	No	1		
9	15mm Chromium plated wall mounted sink mixer with "Capstan" handles, overarm aerated swivel outlet and concealed connections.	No	1		
	<u>Waste unions, traps, etc.</u>				
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Outlets, traps, etc :

1	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	2
2	38mm PVC Sink double trap.	No	1

Fire fighting equipmentPortable fire extinguishers:

3	4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall.	No	9
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PLUMBING AND DRAINAGE

**MANZANA JUNIOR PRIMARY SCHOOL
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PLUMBING AND DRAINAGE

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Item No	Quantity	Rate	Amount
<u>BILL No. 14</u>			
<u>PAINTWORK</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>REDECORATION OF EXISTING</u>			
<u>PREVIOUSLY PAINTED CONCRETE, PLASTER, ETC</u>			
<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats exterior acrylic emulsion sheen paint on:</u>			
1	External plastered walls.	m2	934
2	External smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	42
<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior washable acrylic washable emulsion sheen paint on:</u>			
3	Internal plastered walls.	m2	1,260
4	Internal smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	50
<u>Prepare and apply, on previously high pressure cleaned surface, two coats quality granolithic floor paint on:</u>			
5	Floors.	m2	115
6	Walls.	m2	33
7	Stairs and ramps.	m2	15
Carried to Collection			R
Section No. 2 Bill No. 14 PAINTWORK MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES			

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:

1 External cill not exceeding 300mm girth. m 71

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:

2 Internal cill not exceeding 300mm girth. m 71

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:

3 Fascias and barge boards. m2 14

PREVIOUSLY PAINTED METALWORK

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

4 Steel windows with burglar bars (both sides measured). m2 199

5 IBR corrugated steel roof sheeting. m2 1,070

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:

6 Steel tubular support columns. m2 44

PREVIOUSLY PAINTED TIMBER

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PAINTWORK

**MANZANA JUNIOR PRIMARY SCHOOL
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	<u>Sand down painted surface to bare timber and apply one coat exterior primer, one coat undercoat and two coats flat enamel paint on:</u>				
1	General surfaces of timber rafters, beams, etc.	m2	113		
2	General surfaces of roof timbers not exceeding 300mm girth.	m	408		
	<u>NEW WORKS</u>				
	<u>PAINT ON TIMBER</u>				
	<u>Prime or oil</u>				
3	Backs of frames or linings not exceeding 300mm girth.	m	75		
	<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>				
4	Surfaces of framed, ledged and braced batten doors.	m2	60		
5	Frames and linings.	m2	20		
	<u>Prepare and apply three coats exterior quality clear polyurethane varnish on :</u>				
6	Skirtings, cornices or rails not exceeding 300mm girth.	m	420		
	<u>PAINT ON FIBRE-CEMENT</u>				
	<u>Prime nail heads and H-section jointing strips and apply one coat universal undercoat and two coats eggshell enamel paint on :</u>				
7	Internal fibre cement board ceilings including priming cover strips.	m2	760		
	<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>				
8	External fibre cement fascia boarding including priming cover strips.	m2	45		
9	External fibre cement bargeboard including priming cover strips.	m2	36		
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PAINT ON METALWORK

One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :

1	Steel gates (both sides measured).	m2	61
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<u>SECTION NO.3 - EXTERNAL WORKS</u>				
<u>BILL No. 1</u>				
<u>BULK EARTHWORKS</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>DEMOLITIONS AND SITE CLEARANCE</u>				
<u>Demolitions</u>				
<u>Tank stands</u>				
1	Demolish and cart away 5000 litre water storage tank including brick tank stand, comprised of plastered and painted brick walls and reinforced concrete slab including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	4	
<u>Fencing</u>				
2	Take down and cart away stock fencing, 1800mm high, including excavating out timber intermediate, corner or straining posts, at approximately 3000mm centres, backfilling of holes, etc.	m	500	
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Soakage pits, french drains, etc. (Labour intensive)**Excavations**

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

1	Surface trenches.	m3	9
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Excavations in earth of more difficult character

2	Extra over excavations in earth for excavation in soft rock.	m3	1
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3	Extra over excavations in earth for excavation in hard rock.	m3	1
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Carting away of excavated material

4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	6
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Risk of collapse of excavations

5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	21
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Keeping excavations free of water

6	Allow for keeping the excavations free from water.	Item	
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Filling

7	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	3
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8	19mm Uniformly graded and washed concrete stone laid loose on filter fabric (elsewhere).	m3	6
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Filter fabric

9	Grade 3 needle punched non-woven synthetic fibre filter fabric laid in bottom of chamber.	m2	33
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SOIL DRAINAGE (PROVISIONAL)

**MANZANA JUNIOR PRIMARY SCHOOL
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<u>Pipes, pipe fittings, etc.</u>			
<u>UTL420 PVC Perforated slotted heavy duty pipe</u>			
1	110mm Diameter pipe laid in trench (elsewhere).	m	6
<u>THE FOLLOWING IN SEPTIC TANKS (Labour intensive)</u>			
<u>Excavations</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	Holes.	m3	23
<u>Excavations in earth of more difficult character</u>			
3	Extra over excavations in earth for excavation in soft rock.	m3	2
4	Extra over excavations in earth for excavation in hard rock.	m3	1
<u>Carting away of excavated material</u>			
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	16
<u>Risk of collapse of excavations</u>			
6	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc.	m2	30
<u>Keeping excavations free of water</u>			
7	Allow for keeping the excavations free from water.		Item
<u>Filling</u>			
8	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	2
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	<u>Weedkillers, insecticides, etc.</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
1	To bottoms and sides of trenches.	m2	24		
	<u>CONCRETE (Labour intensive)</u>				
	<u>Reinforced concrete 30MPa (19mm stone) in:</u>				
2	Slabs including beams and inverted beams.	m3	3		
	<u>Surface treatment</u>				
3	Float surface of concrete to a wood float finish.	m2	10		
	<u>Test blocks and testing</u>				
4	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	1		
	<u>FORMWORK (Labour intensive)</u>				
	<u>Rough formwork (use and waste) to concrete to:</u>				
	<u>Formwork to slabs, beams and stairs</u>				
5	Soffits of slabs exceeding 1.5 not exceeding 3.5m above bearing level.	m2	9		
	<u>Edges, risers, ends and reveals</u>				
6	Edge, riser, etc not exceeding 300mm high.	m	8		
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REINFORCEMENT (PROVISIONAL)High tensile welded steel mesh reinforcement :

1	Ref: 395 cast into concrete surfaces.	m2	19
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Inspection chambers, catch pits, etc.Cast iron covers and frames

2	450 x 600mm x 72kg Type 8A coated cast iron double seal manhole cover and frame, including bedding and grouting frame on concrete, locking bar and padlock.	No	1
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Black PVC duct pipe in single lengths :

3	150mm Diameter vent pipe.	m	1
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Extra over PVC duct pipe for fittings :

4	150mm Plain bend.	No	1
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Septic tanks:

5	6000 Litre polyethylene rotomoulded horizontal septic waste storage tank provided complete with lid, overflow outlet fitted with suitable adaptor, inlet fitted with suitable adapter and setting in position underground (elsewhere measured).	No	1
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6	Hole through top of tank lid for 150mm diameter pipe.	No	1
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Testing

7	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.		Item
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SOIL DRAINAGE (PROVISIONAL)

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Item No	Quantity	Rate	Amount
<u>BILL No. 3</u>			
<u>STORMWATER DRAINAGE (PROVISIONAL)</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>			
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Surface trenches.	m3	48
2	Reduced levels under solid floors.	m3	4
<u>Carting away of excavated material</u>			
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24
<u>Risk of collapse of excavations</u>			
4	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	141
<u>Keeping excavations free of water</u>			
5	Allow for keeping the excavations free from water.	Item	
<u>Filling, layerworks, etc.</u>			
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, underfloors, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	40
Carried to Collection			R
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STORMWATER DRAINAGE			
MANZANA JUNIOR PRIMARY SCHOOL			
PROVISIONAL BILLS OF QUANTITIES			

1	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	8		
	<u>Compaction of surfaces</u>				
2	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	24		
	<u>Tests</u>				
3	Allow for Mod AASHTO density tests on filling.	No	4.00		
	<u>Reinforced concrete 25MPa in:</u>				
4	Strip foundations cast against excavated surfaces.	m3	4		
5	Surface beds cast in panels including temporary formwork.	m3	4		
	<u>Sundries</u>				
6	Float surface of concrete to a wood float finish.	m2	40		
	<u>Rough formwork (use and waste) to concrete to:</u>				
7	Edge, riser, etc not exceeding 300mm high.	m	72		
	<u>High tensile welded steel mesh reinforcement :</u>				
8	Ref: 193 cast into concrete surfaces.	m2	40		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
9	One brick wall.	m2	32		
10	One brick wall in foundations. (Provisional)	m2	48		
	<u>Brickwork sundries :</u>				
11	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	240		
Carried to Collection				R	
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	<u>Ties, cramps, etc.</u>				
1	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut.	No	8		
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	32		
	<u>250 Micron "Gunplas USB" green polyethylene sheeting</u> :				
3	Laid flat under solid floor and over walls.	m2	40		
	<u>One coat external 1:5 cement plaster on :</u>				
4	Brick wall.	m2	72		
	<u>Rainwater tanks:</u>				
5	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid, overflow outlet and "ASIDI" emblem, 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	8		
6	Hole through top of tank lid for 100mm diameter pipe.	No	8		
	<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>				
7	External smooth plastered walls.	m2	72		
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Section No. 3

Bill No. 3

STORMWATER DRAINAGE

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Bill No. 3

STORMWATER DRAINAGE

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
<u>BILL No. 4</u>				
<u>WATER SUPPLY</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>ALTERATIONS TO EXISTING</u>				
1	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1	
2	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
<u>PIPEWORK, ETC.</u>				
<u>Pipes, pipe fittings, etc.</u>				
<u>Class 12 HDPE pressure water supply pipe including short lengths and cutting and Class C bedding cradle</u>				
3	25mm Pipe and laying in ground not exceeding 1000mm deep.	m	25	
4	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	75	
<u>Extra over HDPE pipes for the following fittings</u>				
5	25mm Fittings.	No	5	
6	40mm Bend.	No	5	
7	40mm Tee.	No	2	
8	40 x 40 x 25mm Reducing tee.	No	3	
Carried to Collection				
Section No. 3 Bill No. 4 WATER SUPPLIES MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

	<u>Excavations in earth of more difficult character</u>				
1	Extra over excavations in earth for excavation in soft rock.	m3	5		
2	Extra over excavations in earth for excavation in hard rock.	m3	3		
	<u>Sundries</u>				
3	Extra over all excavations for pipe trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	8		
4	Imported Sabunga filling as backfill to pipe trenches and compact to 93% modified AASHTO.	m3	8		
	<u>Water supply valve or meter chambers</u>				
5	Excavate for and build meter chamber size 380 x 670 x 305mm deep overall formed of precast concrete heavy duty meter box (ELM) and lid including filling in and ramming.	No	3		
	<u>Connections</u>				
	<u>Connection of new to existing pipes</u>				
6	Connection of 25mm diameter HDPE to 22mm diameter copper pipes including all necessary reducers, saddles, etc.	No	3		
	<u>Taps, valves, etc.</u>				
7	40mm Brass gate valve.	No	3		
	<u>Testing</u>				
8	Allow for testing the water supply installation in accordance with the National Building Regulations.		Item		
Carried to Collection					R
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Bill No. 4

WATER SUPPLIES

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Bill No. 4

WATER SUPPLIES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
<u>BILL No. 5</u>				
<u>ROADWORK, PAVED AREAS, ETC.</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>THE FOLLOWING IN WALKWAYS , APRONS, RAMPS, STAIRS, ETC.</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>				
1	Reduced levels between buildings.	m3	28	
<u>Carting away of excavated material</u>				
2	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	28	
<u>Risk of collapse of excavations</u>				
3	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	21	
<u>Keeping excavations free of water</u>				
4	Allow for keeping the excavations free from water.		Item	
<u>Filling</u>				
5	150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs.	m3	28	
Carried to Collection				R
Section No. 3 Bill No. 5 ROADS, PAVING, ETC. MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

	<u>Sundries</u>				
1	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	180		
	<u>Prescribed Testing</u>				
2	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		
	<u>CONCRETE (Labour intensive)</u>				
	<u>Reinforced concrete 25MPa (19mm stone) in:</u>				
3	Paving in panels including any necessary formwork.	m3	19		
	<u>Surface treatment</u>				
4	Float surface of concrete to a smooth steel trowelled finish.	m2	180		
	<u>Test blocks and testing</u>				
5	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	5		
	<u>Movement joints</u>				
6	10mm Thick "Jointex" closed cell polyethylene joint filler with hinged blocking piece between concrete surfaces not exceeding 300mm wide.	m	283		
7	Remove hinged blocking piece and fill 10 x 15mm cavity with an approved 2 part polysulphide sealer.	m	284		
	<u>FORMWORK</u>				
	<u>Edges, risers, ends and reveals</u>				
8	Edge, riser, etc not exceeding 300mm high.	m	359		
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	Section No. 3 Bill No. 5 ROADS, PAVING, ETC. MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

REINFORCEMENTReinforcement

1	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	182		
<u>SHEET OR MEMBRANE WATERPROOFING (Labour intensive)</u>					
<u>250 Micron "Gunplas USB" green polyethylene sheeting</u>					
2	Laid flat under aprons.	m2	150		

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ROADS, PAVING, ETC.

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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Bill No. 5

ROADS, PAVING, ETC.

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Bill No. 5

ROADS, PAVING, ETC.

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
<u>SECTION NO.4 - TEMPORARY STRUCTURES</u>				
<u>BILL No.1</u>				
<u>TEMPORARY FACILITIES</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>DEMOLITIONS AND SITE CLEARANCE</u>				
<u>Site clearance</u>				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	500	
2	Strip topsoil, average 150mm thick, including depositing in stockpiles on site for later re-use.	m3	75	
<u>EXCAVATIONS, FILLING, ETC.</u>				
<u>OPEN FACE EXCAVATIONS</u>				
3	Open face excavation in earth in cutting and filling in levelling including compacting of the site.	m3	250	
<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	250	
<u>Compaction of surfaces</u>				
5	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	500	
Carried to Collection				
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Section No. 4 Bill No. 1 TEMPORARY STRUCTURES MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

1	<u>Tests</u> Allow for Mod AASHTO density tests on filling. <u>PREFABRICATED BUILDINGS</u> <u>Construction Notes:</u> Platforms to be prepared by the main contractor All construction materials are to be SABS or AGREEMENT South Africa Certified'. Prefabricated systems are to be presented to the Principal Agent for approval before construction commences. Prefabricated structures to be places on adjustable jacks and concrete pads as per the manufactures specifications. Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps and ramps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint. The chassis is to fixed to the adjustable jack trusses Floor construction to be constructed from 18mm 7-Ply rotary cut pine bonded under heat and hydraulic pressure with exterior grade adhesive. All floors to have 6mm groove feather join screwed to chassis cross members with 12 x 45mm galvanized wing tex screws. Floor finishers to classroom units to be covered with 2.5mm vinyl floor sheeting.	No	4.00	
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External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centers through both panels. (See attached drawing 501- Roof/Wall Assembly Vertical Sections)

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

All windows to be the office windows to be fitted with blinds

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TEMPORARY STRUCTURES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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External door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

Double pitched roof trusses with a minimum pitch of 15 degrees and a overhang of 200mm both sides. Roof covering to be 0.6mm Galvanized pre-painted corrugated chromadek sheeting with PVC half round eaves gutter and PVC down pipes.

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TEMPORARY STRUCTURES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.(See attached drawing 502- Internal Wall Base Detail)

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centers through both panels. (See attached drawing 506- Internal Wall - Head Detail Vertical Section)

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets,sealant, etc. (See attached drawing 500- corner detail- horizontal section)

All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and air conditioner isolators. All lights, plugs, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

Units to be provided with magnetic chalkboards and pinning boards.

Units to be provided with stairs and ramps where necessary to access the classrooms.

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TEMPORARY STRUCTURES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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Main contractor to provide the electrical main supply to the prefabricated units and connect to the pre-wired units.

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

Prefabricated Units

Note: The contractor it to take note of all the items above when pricing the prefabricated structure.

The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.

1	Supply, transport and erect of a classroom block size 6980 x 7060mm, internal area of 48m2.	No	4
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TEMPORARY STRUCTURES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

BUDGETARY ALLOWANCE**ELECTRICAL INSTALLATION**

1	Allow the Budgetary Allowance of R 50 000.00 (Fifty Thousand Rand) for the re-routing of the main electrical supply to the temporary prefabricated units. (To be detailed at a later stage)	Item	50,000.00
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RELOCATION OF TEMPORARY FACILITIES**Uplifting**

2	Carefully uplift prefabricated classroom unit, size 6980 x 3060mm x 3000mm high and prepare for transportation including disconnection the electricity supply.	No	4
---	--	----	---

Transport

Note : Item below measured as per cost per a kilometre (NO = KM) 300km allowance for travelling distance.

3	Transport prefabricated classroom unit, size 6980 x 3060mm x 3000mm high to new site to be confirmed by the client.	No	1,200
---	---	----	-------

Installation

4	Take from transport existing prefabricated classroom unit, size 6980 x 3060mm x 3000mm high and install in position identified by the architect including allowing for site clearance, concrete jack pads, connection of the electrical, water and sewer connection to the main supply.	No	4
---	---	----	---

Damage Allowance

5	Allow the Provisional Sum of R 50 000.00 (Fifty Thousand Rand) for repair or replacement of components to the prefabricated structures to be supplied by the original manufacturer.	Item	50,000.00
6	Add for profit on the above.	Item	
7	Allow for attendance upon the specialist installation subcontractor.	Item	

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MANZANA JUNIOR PRIMARY SCHOOL

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TEMPORARY STRUCTURES

**MANZANA JUNIOR PRIMARY SCHOOL
PROVISIONAL BILLS OF QUANTITIES**

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	<u>SECTION NO.5 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
	<u>BILL NO.1</u>			
	<u>PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).			
	<u>PROVISIONAL SUM</u>			
	<u>JOINERY FITTINGS</u>			
1	Provided the Provisional sum of R 30 000.00 (Thirty Thousand Rand) for the replacement of existing joinery fittings.	Item		30,000.00
2	Add for profit on the above, if desired.	Item		
3	Allow for attendance on the above, if desired.	Item		
	<u>ELECTRICAL INSTALLATION</u>			
4	Provided the Provisional sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for the installation of the new and refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item		150,000.00
5	Add for profit on the above, if desired.	Item		
6	Allow for attendance on the above, if desired.	Item		
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
7	Provide the sum of R 45 000.00 (Forty Five Thousand Hundred Rand) for the employment of a CLO.(R 7 500.00 per month x contract period allowance)	Item		45,000.00
	Carried to Collection			R
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	PROVISIONAL SUMS, BUDGETARY ALLOWANCES,EC			
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1	Add for profit on the above if required.	Item		
<u>MECHANICAL INSTALLATION</u>				
2	Provide the Provisional Sum of R 10 000.00 (Ten Thousand Rand) for the supply, delivery and installation of fridge freezer combination unit.	Item	10,000.00	
3	Add for profit on the above, if desired.	Item		
4	Allow for attendance upon the specialist installation subcontractor.	Item		
<u>GAS INSTALLATION</u>				
5	Provide the Provisional Sum of R 50 000.00 (Fifty Thousand Rand) for the supply, delivery and installation of gas piping reticulation complete including pipework, gas burner stoves, valves, bottles, cages, etc. to be undertaken by a specialist firm.	Item	50,000.00	
6	Add for profit on the above, if desired.	Item		
7	Allow for attendance upon the specialist installation subcontractor.	Item		
<u>PERIMETER FENCING</u>				
8	Provisional sum of R 1 000 000.00 (One Million Rand) for the supply and installation of the perimeter fencing to the site as per architects specifications by specialist contractor.	Item	1,000,000.00	
9	Add for profit on the above.	Item		
10	Allow for attendance upon the specialist installation subcontractor.	Item		
<u>BUDGETARY ALLOWANCE</u>				
<u>REPAIRS TO EXISTING VIP TOILETS</u>				
11	Allow the Budgetary Allowance of R 100 000.00 (One Hundred Thousand Rand) for the minor repairs to newly built VIP toilets, to be detailed at a later stage.	Item	100,000.00	
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Section No. 5 Bill No. 1 PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES				

SIGNAGE

- 1 Allow the Budgetary Allowance of R 5 000.00 (Five Thousand Rand) for the replacing of the main building signage.

Item

5,000.00

ROOF TRUSS STRENGTHENING

- 2 Allow the Budgetary Allowance of R 50 000.00 (Fifty Thousand 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

50,000.00

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MANZANA JUNIOR PRIMARY SCHOOL**PROVISIONAL BILLS OF QUANTITIES**

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5	SECTION NO.5 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.	109	
	Sub - Total	R	
	CONTINGENCY PROVISIONS	Item	100,000.00
	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	
	MANZANA JUNIOR PRIMARY SCHOOL PROVISIONAL BILLS OF QUANTITIES		