

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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

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

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

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

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

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

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

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

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

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

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

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

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

and

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

OBJECTIVE AND PREPARATION

1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

2 A3.0 DOCUMENTS

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

Fixed: _____ Value related: _____ Time related: _____

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1	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:_____			
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	Item		
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10.6 Injury to Persons or loss of or damage to Properties

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

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

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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Fixed: _____ Value related: _____ Time
related: _____

Item

1 A16.0 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **A17.0 CONTRACT INSTRUCTIONS**

Clause 17.0

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

Fixed: _____ Value related: _____ Time
related: _____

Item

3 A18.0 SETTING OUT OF THE WORKS

Clause 18.0

Fixed: _____ Value related: _____
Time related: _____

Item

4 | A19.0 ASSIGNMENT

Clause 19.0

Fixed: _____ Value related: _____ Time
related: _____

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1	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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COMPLETION

1 **A24.0 PRACTICAL COMPLETION**

Clause 24.0

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **A25.0 WORKS COMPLETION**

Clause 25.0

Fixed: _____ Value related: _____ Time
related: _____

Item

3 **A26.0 FINAL COMPLETION**

Clause 26.0

Fixed: _____ Value related: _____ Time
related: _____

Item

4 **A27.0 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

Fixed: _____ Value related: _____ Time
related: _____

Item

5 **A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time
related: _____

Item

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1	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 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL ZWELIXOLILE PS 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: _____

Item

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1	A34.0 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due" Fixed: _____ Value related: _____ Time related: _____	Item	
2	A35.0 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed: _____ Value related: _____ Time related: _____ <u>CANCELLATION</u>	Item	
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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1	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: _____ 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:	Item		
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38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 39.0

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

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

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>	Item		
2	A41.0 STATE CLAUSES Clause 41.0 Fixed: _____ Value related: _____ Time related: _____	Item		
3	<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		
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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

1 B1.1 Definitions and interpretation

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

2 B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

3 B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

4 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

5 B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

6 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

7 B2.6 Tender submission

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

Fixed: _____ Value related: _____ Time related: _____

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B3.0 THE SITE

1 **B3.1 Defined works area**

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **B3.2 Geotechnical investigation**

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

4 **B3.4 Existing premises occupied**

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

7 **B3.7 Services - known**

Fixed: _____ Value related: _____ Time
related: _____

Item

8 **B3.8 Services - unknown**

Fixed: _____ Value related: _____ Time
related: _____

Item

9 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

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SECTION NO.1 - PRELIMINARIES AND GENERAL

Bill No. 1

PRELIMINARIES AND GENERAL

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

1	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item		
2	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B4.0 MANAGEMENT OF CONTRACT</u>			
3	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____	Item		
4	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item		
5	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item		
6	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
7	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
8	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried to Collection		R	
	SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES			

1	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item		
2	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item		
3	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
4	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item		
5	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item		
6	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item		
7	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item		
8	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item		
9	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item		
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B7.0 TEMPORARY SERVICES

1 **B7.1 Location**

Fixed: _____ Value related: _____ Time
related: _____

Item

2 **B7.2 Water**

Fixed: _____ Value related: _____ Time
related: _____

Item

3 **B7.3 Electricity**

Fixed: _____ Value related: _____ Time
related: _____

Item

4 **B7.4 Telecommunication facilities**

Fixed: _____ Value related: _____ Time
related: _____

Item

5 **B7.5 Ablution facilities**

Fixed: _____ Value related: _____ Time
related: _____

Item

B8.0 PRIME COST AMOUNTS

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

7 **B9.1 General attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

8 **B9.2 Special attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

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1	B9.3 Commissioning - fuel, water and electricity Fixed: _____ Value related: _____ Time related: _____ B10.0 FINANCIAL ASPECTS	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: _____ B11.0 GENERAL	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: _____ B12.0 SCHEDULE OF VARIABLES	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 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL ZWELIXOLILE PS 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:

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12.1.13 **Offices**

[6.4.3] Specific requirements:

The **contractor** shall provide, maintain and remove on completion of the works an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with board/concrete 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

[6.4.3] Specific requirements:

The **contractor** shall provide, maintain and remove on completion of the works an lockable secure store for the exclusive use of the **storage of materials** and fitted with steel/concrete floor.

12.1.14 **Main notice board**

[6.5] Specific requirements:

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

12.1.15 **Subcontractors' notice board**

[6.6] *A notice board is required*

NO

Specific requirements:

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12.1.16 **Water**

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

YES

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

NO

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

NO

12.1.17 **Electricity**

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

YES

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

NO

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

NO

12.1.18 **Telecommunications**

[7.4] Telephone

YES

Facsimile

YES

E-mail

YES

12.1.19 **Ablution facilities**

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

YES

Option B (by **employer**)

NO

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

[11.2] Protection is required

NO

12.1.21 **Special attendance**

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

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 **Protection of the works**

[11.1] Specific requirements:

12.1.23 **Disturbance**

[11.5] Specific requirements:

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)

NO

Option B (calculated)

YES

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12.2.2 **Adjustment of preliminaries**
[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES

12.2.3 **Additional agreed preliminaries items**
Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 C1.0 CONTRACT DRAWINGS

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 C2.0 GENERAL PREAMBLES

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

Fixed: _____ Value related: _____
Time related: _____

Item

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1	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: _____			
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 Carried to Collection SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES	Item		R

C4.1 AWARENESS CHAMPION

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

Fixed:_____ Value related:_____

Time related:_____

Item

C4.2 AWARENESS WORKSHOPS

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

Fixed:_____ Value related:_____

Time related:_____

Item

C4.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed:_____ Value related:_____

Time related:_____

Item

C4.4 ACCESS TO CONDOMS

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

Fixed:_____ Value related:_____

Time related:_____

Item

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C4.5 MONITORING

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

Fixed: _____ Value related: _____
Time related: _____

Item

1 **C5.0 SMME MENTOR :SMME SUB-CONTRACTORS**

"The Contractor shall provide an SMME construction manager for the full duration of the project."

Fixed: _____ Value related: _____
Time related: _____

Item

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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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SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 2 HEALTH AND SAFETY ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES			

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

[illegible]

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.2 - BUILDING WORKS</u>			
	<u>BILL NO.1</u>			
	<u>EARTHWORKS (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>Quantity breakdown</u>			
	In this Section No. 2 of the Bills of Quantities a breakdown of the total quantities into the various buildings is indicated below each description as follows:			
	B - DWG 03 - Staff Ablutions			
	E - DWG 07 - Grade R Ablutions			
	H - DWG 13 - Female ablutions			
	L - DWG 20 - Female Ablutions			
	N - DWG 25 - Male Ablutions			
	R - DWG 30 - Male Ablutions			
	It should be noted that due to the "rounding off" factor marginal differences can occur between the sum of the parts to the total given in the quantity column. For pricing purposes only the amount in the quantity column is to be used.			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>EXCAVATIONS, FILLING, ETC.</u>			
	<u>BULK 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>			
1	Pit toilet.	m3	187	
	B : 30 E : 44 H : 36 L : 43			
	N : 17 R : 17 Z : 0			
	Carried to Collection			R
	SECTION NO.2 - BUILDING WORKS			
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	<u>Excavate in earth exceeding 2m deep not exceeding 4m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>		
1	Pit toilet. B : 3 E : 4 H : 4 L : 4 N : 2 R : 2 Z : 0	m3	19
	<u>Excavations in earth of more difficult character</u>		
2	Extra over excavations in earth for excavation in soft rock. B : 5 E : 7 H : 6 L : 7 N : 3 R : 3 Z : 0	m3	31
3	Extra over excavations in earth for excavation in hard rock. B : 5 E : 7 H : 6 L : 7 N : 3 R : 3 Z : 0	m3	31
	<u>EXCAVATIONS FOR FOUNDATIONS, ETC.</u>		
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>		
4	Reduced levels under solid floors. B : 3 E : 2 H : 1 L : 3 N : 2 R : 2 Z : 0	m3	12
5	Surface trenches. B : 33 E : 37 H : 17 L : 42 N : 18 R : 18 Z : 0	m3	165
	<u>Excavations in earth of more difficult character</u>		
6	Extra over excavations in earth for excavation in soft rock. B : 3 E : 4 H : 2 L : 4 N : 2 R : 2 Z : 0	m3	17
7	Extra over excavations in earth for excavation in hard rock. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	m3	8

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SECTION NO.2 - BUILDING WORKS
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<u>Carting away of excavated material</u>		
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. B : 51 E : 68 H : 49 L : 69 N : 28 R : 28 Z : 0	m3 294
<u>Risk of collapse of excavations</u>		
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. B : 93 E : 104 H : 49 L : 120 N : 53 R : 53 Z : 0	m2 472
3	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc. B : 35 E : 42 H : 37 L : 43 N : 26 R : 26 Z : 0	m2 209
<u>Working space</u>		
4	Excavate in earth for working space exceeding 1500mm and not exceeding 3000mm deep, 500mm from the face of brickwork in the pit, for waterproofing purposes including backfilling with G7 imported material compacted in 150mm thick layers to 95% Modified AASHTO dry density. B : 35 E : 42 H : 37 L : 43 N : 26 R : 26 Z : 0	m2 209
5	Extra over working space excavations for excavation in soft rock. B : 3 E : 5 H : 4 L : 4 N : 3 R : 3 Z : 0	m2 22
6	Ditto, but for excavation in hard rock. B : 2 E : 3 H : 2 L : 2 N : 1 R : 1 Z : 0	m2 11
<u>Keeping excavations free of water</u>		
7	Allow for keeping the excavations free from water.	Item
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SECTION NO.2 - BUILDING WORKS		
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<u>Filling</u>					
1	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density. B : 18 E : 20 H : 9 L : 23 N : 10 R : 10 Z : 0	m3	89		
<u>Foundation courses</u>					
2	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. B : 7 E : 8 H : 5 L : 9 N : 4 R : 4 Z : 0	m3	38		
3	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors. B : 7 E : 11 H : 4 L : 11 N : 4 R : 4 Z : 0	m3	40		
4	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors. B : 3 E : 5 H : 2 L : 6 N : 2 R : 2 Z : 0	m3	20		
5	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc. B : 1 E : 1 H : 0 L : 1 N : 1 R : 1 Z : 0	m3	4		
<u>Compaction of surfaces</u>					
6	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density. B : 22 E : 36 H : 14 L : 37 N : 13 R : 13 Z : 0	m2	134		
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Item No	Quantity	Rate	Amount
BILL No. 2			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</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>CONCRETE</u>			
<u>Mass concrete 15MPa (19mm stone) in:</u>			
1	Blinking beneath bases, strip footings, etc cast against excavated surfaces.	m3	11
	B : 2 E : 3 H : 2 L : 3		
	N : 1 R : 1 Z : 0		
<u>Unreinforced concrete 25MPa (19mm stone) in:</u>			
2	Stairs, ramps, aprons, ect.	m3	1
	B : 0 E : 0 H : 0 L : 0		
	N : 0 R : 0 Z : 0		
<u>Reinforced concrete 30MPa (19mm stone) in:</u>			
3	Filling to cavity of hollow brick wall with "Coprox" or equally approved waterproof additive batched mixed into concrete at 2.5kgs/50kgs cement.	m3	21
	B : 3 E : 4 H : 4 L : 4		
	N : 3 R : 3 Z : 0		
4	Strip foundations cast against excavated surfaces.	m3	33
	B : 7 E : 7 H : 3 L : 8		
	N : 4 R : 4 Z : 0		
5	Slabs including beams and inverted beams.	m3	22
	B : 4 E : 5 H : 4 L : 5		
	N : 2 R : 2 Z : 0		
Carried to Collection			R
SECTION NO.2 - BUILDING WORKS			
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CONCRETE, FORMWORK AND REINFORCEMENT			
ZWELIXOLILE PS			
PROVISIONAL BILLS OF QUANTITIES			

1	Surface beds cast in panels including temporary formwork. B : 6 E : 8 H : 5 L : 9 N : 3 R : 3 Z : 0 <u>Surface treatment</u>	m3	35
2	Float surface of concrete to a wood float finish. B : 18 E : 43 H : 22 L : 39 N : 11 R : 11 Z : 0	m2	145
3	Powerfloating of concrete surface bed. B : 32 E : 34 H : 26 L : 39 N : 17 R : 17 Z : 0 <u>Test blocks and testing</u>	m2	165
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) <u>FORMWORK</u> <u>Rough formwork (use and waste) to concrete to:</u> <u>Permanent formwork to slabs, beams and stairs</u>	No	30
5	Soffits of slabs exceeding 250mm Thick and exceeding 1.5 not exceeding 3.5m above bearing level. B : 14 E : 19 H : 16 L : 20 N : 7 R : 7 Z : 0 <u>Edges, risers, ends and reveals</u>	m2	83
6	Edge, riser, etc not exceeding 300mm high. B : 44 E : 74 H : 44 L : 61 N : 34 R : 34 Z : 0	m	290
7	Stepped outer edge of stairs 350mm high extreme . B : 0 E : 0 H : 0 L : 0 N : 0 R : 0 Z : 0	m2	1

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<u>Openings</u>					
1	Leave or form circular opening not exceeding 1m girth through 255mm thick reinforced concrete slab. B : 8 E : 10 H : 8 L : 12 N : 4 R : 4 Z : 0	No	46		
2	Leave or form opening exceeding 2m not exceeding 3m girth through 255mm thick reinforced concrete slab. B : 2 E : 2 H : 2 L : 3 N : 1 R : 1 Z : 0	No	11		
<u>Movement joints</u>					
3	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces. B : 39 E : 38 H : 21 L : 30 N : 22 R : 22 Z : 0	m	171		
4	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer. B : 39 E : 38 H : 21 L : 30 N : 22 R : 22 Z : 0	m	171		
5	Slip joint not exceeding 300mm wide formed of two layers of 3 Ply malthoid laid on and including a 3:1 cement mortar bedding. B : 14 E : 16 H : 15 L : 18 N : 11 R : 11 Z : 0	m	86		
<u>Grooves, channels, mortices, etc.</u>					
6	Labour forming 20mm rounded nosing to edge of concrete surface. B : 15 E : 18 H : 16 L : 20 N : 11 R : 11 Z : 0	m	91		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Mild steel rod reinforcement to structural concrete work</u>					
7	10mm Diameter bars. B : 0.138 E : 0.196 H : 0.165 L : 0.199 N : 0.073 R : 0.073 Z : 0.000	t	0.844		
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High tensile rod reinforcement to structural concrete work

1	10mm Diameter bars.	t	2.532
	B : 0.414 E : 0.587 H : 0.495 L : 0.598		
	N : 0.219 R : 0.219 Z : 0.000		
2	12mm Diameter bars.	t	2.532
	B : 0.414 E : 0.587 H : 0.495 L : 0.598		
	N : 0.219 R : 0.219 Z : 0.000		
3	16mm Diameter bars.	t	2.532
	B : 0.414 E : 0.587 H : 0.495 L : 0.598		
	N : 0.219 R : 0.219 Z : 0.000		

High tensile welded steel mesh reinforcement :

4	Ref: 193 cast into concrete surfaces.	m2	52
	B : 3 E : 21 H : 4 L : 18		
	N : 3 R : 3 Z : 0		
5	Ref: 395 cast into concrete surfaces.	m2	82
	B : 19 E : 15 H : 10 L : 19		
	N : 10 R : 10 Z : 0		
6	Ref: 888 cast into stripfootings.	m2	132
	B : 26 E : 29 H : 14 L : 34		
	N : 15 R : 15 Z : 0		
7	Ref: 888 cast into vertically in brick cavity.	m2	172
	B : 29 E : 33 H : 31 L : 36		
	N : 22 R : 22 Z : 0		

Carried to Collection

SECTION NO.2 - BUILDING WORKS
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>MASONRY</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>FOUNDATION BRICKWORK (PROVISIONAL)</u>			
	<u>Walls and linings in stock bricks in 5:1 cement mortar :</u>			
1	Half brick wall against slab. B : 4 E : 4 H : 4 L : 5 N : 3 R : 3 Z : 0	m2	23	
2	One brick wall. B : 44 E : 49 H : 23 L : 56 N : 25 R : 25 Z : 0	m2	221	
	<u>Walls and linings in stock bricks in 5:1 cement mortar with "Coprox" or equally approved waterproof additive batched mixed into mortar at 2.5kgs/50kgs cement :</u>			
3	345mm Thick cavity wall comprising two 110mm brick skins tied together with and including galvanised butterfly wire ties at the minimum rate of 9/m2. B : 29 E : 33 H : 31 L : 36 N : 22 R : 22 Z : 0	m2	172	
	<u>Reinforcement to brickwork</u>			
4	Galvanised brick reinforcement 115mm wide built horizontally into brickwork. B : 687 E : 785 H : 733 L : 862 N : 526 R : 526 Z : 0	m	4,119	
5	Galvanised brick reinforcement 230mm wide built horizontally into brickwork. B : 514 E : 574 H : 271 L : 661 N : 289 R : 289 Z : 0	m	2,599	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 3			
	MASONRY			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			
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FACE BRICKWORK

"Qunu Travertine " or other equal approved FBX quality
face bricks including jointing and square recess pointing
6 x 10mm joints

1	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	97
	B : 18 E : 21 H : 13 L : 21 N : 12 R : 12 Z : 0		

SUPERSTRUCTURE BRICKWORK

Walls and linings in stock bricks in 5:1 cement mortar :

2	Half brick wall.	m2	50
	B : 11 E : 9 H : 15 L : 9 N : 4 R : 4 Z : 0		
3	One brick wall.	m2	409
	B : 85 E : 70 H : 57 L : 90 N : 54 R : 54 Z : 0		

Beamfilling

4	Half brick wall in beamfilling.	m2	26
	B : 5 E : 5 H : 4 L : 6 N : 3 R : 3 Z : 0		

Reinforcement to brickwork

5	Galvanised brick reinforcement 115mm wide built horizontally into brickwork.	m	535
	B : 111 E : 92 H : 109 L : 114 N : 55 R : 55 Z : 0		
6	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	1,203
	B : 250 E : 205 H : 167 L : 264 N : 158 R : 158 Z : 0		

Precast pre-stressed reinforced concrete lintols

7	75 x 110mm Lintol not exceeding 3m long, built at both ends into brickwork over opening.	m	19
	B : 4 E : 2 H : 4 L : 5 N : 2 R : 2 Z : 0		

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SECTION NO.2 - BUILDING WORKS

Bill No. 3

MASONRY

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	<u>Turning pieces</u>				
1	Turning piece to soffit, 110mm wide, at lintols, etc. B : 8 E : 5 H : 5 L : 10 N : 5 R : 5 Z : 0	m	39		
	<u>EXTERNAL FACE BRICKWORK</u>				
	<u>"Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
2	Extra over ordinary brickwork for facing and pointing in stretcher bond. B : 83 E : 74 H : 63 L : 79 N : 52 R : 52 Z : 0	m2	402		
3	Extra over ordinary brickwork for facing and pointing in reveals. B : 4 E : 2 H : 2 L : 3 N : 2 R : 2 Z : 0	m2	15		
	<u>Fair cutting to face brickwork</u>				
4	Fair cutting and fitting around pipe not exceeding 100mm diameter. B : 10 E : 8 H : 4 L : 10 N : 8 R : 8 Z : 0	No	48		
5	Fair raking and cutting. B : 7 E : 7 H : 7 L : 7 N : 7 R : 7 Z : 0	m	42		
	<u>Face brick copings, lintols, cills, etc.</u>				
6	Extra over brickwork for cut brick-on-edge cill, 165mm wide, set sloping and slightly projecting including pointing to face and top. B : 5 E : 4 H : 3 L : 7 N : 4 R : 4 Z : 0	m	26		
7	Extra over brickwork for brick-on-edge header course tread, 220mm wide, including pointing to one face and top. B : 12 E : 23 H : 6 L : 31 N : 12 R : 12 Z : 0	m	96		
	Carried to Collection			R	
	SECTION NO.2 - BUILDING WORKS				
	Bill No. 3				
	MASONRY				
	ZWELIXOLILE PS				
	PROVISIONAL BILLS OF QUANTITIES				

1	Extra over brickwork for cut brick-on-end header course lintol, including pointing to face and soffit. B : 8 E : 5 H : 5 L : 10 N : 5 R : 5 Z : 0 <u>Test:</u>	m	39
2	Contractor is to construct L-Shape one brick facebrick wall faced on both sides including pointing, size 1000 x 1000 x 1000mm high to be approved by the principal agent before brickwork proceeds. <u>MISCELLANEOUS</u> <u>Natural grey fibre-cement cills</u>		Item
3	15mm x 150mm Wide cill set flat and slightly projecting. B : 5 E : 4 H : 3 L : 7 N : 4 R : 4 Z : 0 <u>Hoop iron ties, cramps, etc.</u>	m	26
4	1.6 x 30mm Galvanized hoop iron roof tie 1100mm long with one end wrapped around and spiked to timber the other end built a minimum of six courses deep into brickwork as the work proceeds. B : 18 E : 16 H : 14 L : 20 N : 10 R : 10 Z : 0 <u>Air bricks, etc.</u>	No	88
5	230 x 160 x 35mm Terracotta vermin proof air brick. B : 28 E : 24 H : 24 L : 76 N : 28 R : 28 Z : 0	No	208

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SECTION NO.2 - BUILDING WORKS
Bill No. 3
MASONRY
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>DAMP-PROOF COURSE</u>			
	<u>375 Micron polyethylene damp-proof sheeting :</u>			
1	Laid in walls. B : 20 E : 22 H : 11 L : 27 N : 12 R : 12 Z : 0	m2	103	
	<u>SHEET OR MEMBRANE WATERPROOFING</u>			
	<u>250 Micron "Gunplas USB" green polyethylene sheeting :</u>			
2	Laid flat on prepared sand bed under solid floor. B : 22 E : 36 H : 14 L : 37 N : 13 R : 13 Z : 0	m2	134	
	<u>"Kaytech 500" Single cuspated HDPE sheet waterproofing membrane</u>			
3	Laid vertically against brickwork as backfilling proceeds. B : 29 E : 33 H : 31 L : 36 N : 22 R : 22 Z : 0	m2	172	
	<u>FLASHING STRIPS</u>			
	<u>Elastic acrylic and rubberised bitumen compound with "waterproof membrane" applied in strict accordance with the Manufacturer's instructions :</u>			
4	Flashing strips around 110mm diameter PVC vent pipes through steel roof sheeting. B : 2 E : 2 H : 2 L : 3 N : 1 R : 1 Z : 0	m	11	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 4			
	WATERPROOFING			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			

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LIQUID WATERPROOFING

Two coats "Brixal" bitumen emulsion waterproofing on:

1	Vertical surfaces of plastered brickwalls.	m2	172
	B : 29 E : 33 H : 31 L : 36		
	N : 22 R : 22 Z : 0		

2	Horizontal concrete surfaces.	m2	84
	B : 14 E : 20 H : 16 L : 19		
	N : 7 R : 7 Z : 0		

One coat plaster primer and two coats "Flexikote" water based acrylic waterproofing sealant on:

3	Vertical surfaces of brickwalls.	m2	172
	B : 29 E : 33 H : 31 L : 36		
	N : 22 R : 22 Z : 0		

WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.

Sealing and pointing

4	Seal and point around aluminium window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	103
	B : 19 E : 14 H : 12 L : 29		
	N : 14 R : 14 Z : 0		

Carried to Collection

SECTION NO.2 - BUILDING WORKS
Bill No. 4
WATERPROOFING
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO.5</u>			
	<u>ROOF COVERING</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>ROOF COVERINGS, ETC.</u>			
	<u>PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.</u>			
	<u>Metal roof sheeting</u>			
	<u>0,53mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :</u>			
1	Roof sheeting laid 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. B : 37 E : 35 H : 27 L : 43 N : 21 R : 21 Z : 0	m2	184	
	<u>Circular cutting</u>			
2	Circular cutting on roof sheeting for ventilators, vent pipes, etc. B : 2 E : 2 H : 2 L : 3 N : 1 R : 1 Z : 0	m	11	
	<u>Accessories, etc. to match roof sheeting</u>			
3	Ridge flashing 225mm girth. B : 9 E : 8 H : 7 L : 10 N : 5 R : 5 Z : 0	m	44	
	Carried to Collection		R	
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 5			
	ROOF COVERING			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			

Insulation

1	"Sisalation FR430" insulation laid taut over rafters at approximately 2400mm centres and fixed including galvanised steel straining wires where required.	m2	184
	B : 37 E : 35 H : 27 L : 43		
	N : 21 R : 21 Z : 0		

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SECTION NO.2 - BUILDING WORKS
Bill No. 5
ROOF COVERING
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

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Item No	Quantity	Rate	Amount
BILL NO.6			
<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>PLATE NAILED TIMBER ROOF CONSTRUCTION</u>			
Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.			
Prices must include for all cross and windbracing according to the manufacturer's instruction.			
Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.			
Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.			
Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.			
The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.			
In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.			
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Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:

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

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

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

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

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Separate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.

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(h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Fixing:

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

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

Erection certificates

- 1 Contractor is to supply a roof truss erection certificate for the building stating that the erection and installation of the roof trusses has been inspected and approved by a professional registered structural engineer.

No

1

B : 0 E : 0 H : 0 L : 0
N : 0 R : 0 Z : 1

Wrot softwood :

- 2 38 x 114mm Wall plate wired down (wire ties elsewhere).

m

84

B : 17 E : 16 H : 12 L : 20
N : 9 R : 9 Z : 0

- 3 50 x 76mm Purlins.

m

266

B : 55 E : 51 H : 39 L : 62
N : 30 R : 30 Z : 0

- 4 50 x 76mm Bracing.

m

72

B : 12 E : 12 H : 12 L : 12
N : 12 R : 12 Z : 0

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SECTION NO.2 - BUILDING WORKS

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PROVISIONAL BILLS OF QUANTITIES

1	38 x 152mm Rafters. B : 36 E : 33 H : 29 L : 42 N : 21 R : 21 Z : 0	m	181
2	38 x 38 x 152mm Long cleat spiked to rafter foot. B : 18 E : 16 H : 14 L : 20 N : 10 R : 10 Z : 0	No	88
3	50 x 76 x 300mm Long sprocket spiked to timber purlin. B : 12 E : 12 H : 12 L : 12 N : 12 R : 12 Z : 0	No	72
<u>Sundries:</u>			
4	Hurricane clip fixed to purlin and rafter. B : 54 E : 48 H : 42 L : 60 N : 30 R : 30 Z : 0	No	264
<u>JOINERY</u>			
<u>Doors, windows, sashes, etc.</u>			
<u>Wrot hardwood :</u>			
5	44mm Thick framed, ledged, braced and battened door size 813 x 1100mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres. B : 0 E : 4 H : 0 L : 0 N : 0 R : 0 Z : 0	No	4

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PROVISIONAL BILLS OF QUANTITIES

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1	44mm Thick framed, ledged, braced and battened door size 813 x 1832mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.	No	17
	B : 4 E : 0 H : 4 L : 5 N : 2 R : 2 Z : 0		
2	44mm Thick framed, ledged, braced and battened door size 813 x 2032mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.	No	6
	B : 2 E : 0 H : 1 L : 1 N : 1 R : 1 Z : 0		
3	44mm Thick framed, ledged, braced and battened door size 950 x 2032mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.	No	3
	B : 0 E : 2 H : 0 L : 1 N : 0 R : 0 Z : 0		

Frames, rails, skirtings, etc.

Meranti timber door frames

Note :

All units are to constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face

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1	Jab lining, to suit single door size 813 x 1100mm high overall. B : 0 E : 10 H : 0 L : 0 N : 0 R : 0 Z : 0	m	10
2	Framed frame, to suit single door size 813 x 2032mm high overall. B : 6 E : 0 H : 5 L : 6 N : 3 R : 3 Z : 0	No	23
3	Framed frame, to suit single door size 950 x 2032mm high overall. B : 0 E : 2 H : 0 L : 1 N : 0 R : 0 Z : 0	No	3
<u>Sundries</u>			
4	10 x 140mm Door frame anchor countersunk and pelleted in timber frame, at approximately 600mm centres, including forming mortice in brickwork or concrete. B : 48 E : 40 H : 40 L : 56 N : 24 R : 24 Z : 0	No	232
<u>Plastic, fibre cement, etc.</u>			
<u>Pressed fibre-cement:</u>			
5	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. B : 9 E : 8 H : 7 L : 10 N : 5 R : 5 Z : 0	m	44
6	80 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc. B : 17 E : 16 H : 15 L : 19 N : 13 R : 13 Z : 0	m	94

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SECTION NO.2 - BUILDING WORKS
Bill No. 6
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PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO.7</u>			
	<u>IRONMONGERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>IRONMONGERY TO TIMBER DOORS, FRAMES, ETC.</u>			
	<u>Hinges, bolts, etc.</u>			
1	100 x 75mm Heavy duty brass butt hinges. B : 14 E : 13 H : 11 L : 16 N : 7 R : 7 Z : 0	No	68	
	<u>Push plates, kicking plates, indicator plates, etc.</u>			
2	"Dormakaba DSS-130 M" or other equal approved 150 x 150mm Stainless steel male pictogram. B : 1 E : 0 H : 0 L : 0 N : 1 R : 1 Z : 0	No	3	
3	"Dormakaba DSS-131 F" or other equal approved 150 x 150mm Stainless steel female pictogram. B : 1 E : 0 H : 1 L : 1 N : 0 R : 0 Z : 0	No	3	
4	"Dormakaba DSS-133 P" or other equal approved 150 x 150mm Stainless steel disabled persons pictogram. B : 0 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	2	
	<u>Locksets, etc. to be masterkeyed</u>			
5	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 7			
	IRONMONGERY			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			

R

1	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt. B : 4 E : 6 H : 4 L : 6 N : 2 R : 2 Z : 0 <u>Handles, furniture, etc.</u>	No	24
2	"Union CZ682-24SC" or equally approved satin chrome radius lever furniture. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9
3	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets) B : 0 E : 2 H : 0 L : 1 N : 0 R : 0 Z : 0 <u>Stops, holders, hooks, etc.</u>	No	3
4	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door. B : 4 E : 1 H : 4 L : 5 N : 2 R : 2 Z : 0 <u>Sundries</u>	No	18
5	50mm Plastic key tag. B : 2 E : 1 H : 1 L : 2 N : 1 R : 1 Z : 0 <u>IRONMONGERY TO METALWORK</u> <u>Locksets, etc. provided with two keys and to be masterkeyed</u>	No	8
6	51mm brass padlock with stainless steel shackle. B : 2 E : 1 H : 1 L : 1 N : 1 R : 1 Z : 0 <u>IRONMONGERY FIXED TO CONCRETE, TILING, ETC.</u> <u>Stops, holders, hooks, etc.</u>	No	7
7	38mm Black rubber door stop plugged to wall or floor. B : 6 E : 6 H : 5 L : 7 N : 3 R : 3 Z : 0	No	30
Carried to Collection			
SECTION NO.2 - BUILDING WORKS			
Bill No. 7			
IRONMONGERY			
ZWELIXOLILE PS			
PROVISIONAL BILLS OF QUANTITIES			

R

SIGNAGE

3mm Thick x 32mm high blue perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame

1	Sign with "MALE STAFF ABLUTIONS" enscribed. B : 1 E : 0 H : 0 L : 0 N : 0 R : 0 Z : 0	No	1
2	Sign with "MALE ABLUTIONS" enscribed. B : 0 E : 0 H : 0 L : 0 N : 1 R : 1 Z : 0	No	2
3	Sign with "FEMALE STAFF ABLUTIONS" enscribed. B : 1 E : 0 H : 1 L : 0 N : 0 R : 0 Z : 0	No	2
4	Sign with "FEMALE ABLUTIONS" enscribed. B : 0 E : 0 H : 0 L : 1 N : 0 R : 0 Z : 0	No	1
5	Sign with "DISABLE" enscribed. B : 0 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	2
6	Sign with "GRADE R" enscribed. B : 0 E : 1 H : 0 L : 0 N : 0 R : 0 Z : 0	No	1

Carried to Collection

SECTION NO.2 - BUILDING WORKS
Bill No. 7
IRONMONGERY
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

R

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Item No		Quantity	Rate	Amount
	METALWORK			
	BILL NO.8			
	Note:			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014).			
	STEEL			
	<u>Stairs, balustrading, cat ladders, grilles, gates, framework, etc.</u>			
	GATES			
	<u>Hot dipped galvanised mild steel</u>			
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel square tubing framing all round with mitred and welded angles, the gate filled in with 12 x 12mm mild steel bars welded, at each end, 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, the leaf fitted with a set of hinges fixed to brickwall with and including masonry anchors.(G1)	No	7	
	B : 2 E : 1 H : 1 L : 1 N : 1 R : 1 Z : 0			
	Carried to Collection		R	
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 8			
	METALWORK			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			

OTHER METALS

Aluminium windows, doors, etc.

All aluminium work is to be manufactured in accordance with AAMSA specifications by a registered Member of the Association

All units are to be pre-glazed in accordance with the requirements of the National Building Regulations, unless otherwise specifically noted

All units are to be supplied with a protective plastic covering, which is to be removed only once all adjacent plastering and painting is complete

All laminated safety glass panes are to bear the safety glass indicator mark, failing which they will be rejected and the Contractor will have to replace same at his own cost.

NATURAL ANODISED ALUMINIUM

Natural bronze anodised pre-glazed aluminium windows complete with ironmongery and including setting up, building in, filling back of frame with cement mortar, sealing around same with silicone sealant, etc.

1	Top hung opening out window, size overall 600 x 600mm high, glazed with and including 6.38mm white translucent laminated safety glass.(W1)	No	43
	B : 8 E : 6 H : 5 L : 12		
	N : 6 R : 6 Z : 0		

Carried to Collection

SECTION NO.2 - BUILDING WORKS

Bill No. 8

METALWORK

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

R

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Item No		Quantity	Rate	Amount
	<u>PLASTERING</u>			
	<u>BILL NO.9</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 July 2014).			
	<u>SCREEDS</u>			
	<u>Untinted granolithic screeds, etc. mixed by volume 4 parts granite chips, 1 part sand and 2 parts cement</u>			
1	40mm Thick screed to floors and landings. B : 23 E : 22 H : 16 L : 24 N : 10 R : 10 Z : 0	m2	105	
	<u>Skirtings</u>			
2	75mm High coved skirting. B : 46 E : 41 H : 34 L : 48 N : 20 R : 20 Z : 0	m	209	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
3	30mm Thick on floors to thresholds including forming reedings to treads. B : 2 E : 0 H : 1 L : 1 N : 1 R : 1 Z : 0	m2	5	
	<u>PLASTER</u>			
	<u>One coat external 1:4 cement plaster on :</u>			
4	Block walls in pit with "Coprox" or equally approved waterproof additive batched mixed into plaster at 2.5kgs/50kgs cement. . B : 29 E : 33 H : 31 L : 36 N : 22 R : 22 Z : 0	m2	172	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS Bill No. 9 PLASTERING ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES			
			R	

1	Brick wall.	m2	598
	B : 126 E : 97 H : 95 L : 139		
	N : 70 R : 70 Z : 0		
2	Brick wall in narrow widths not exceeding 300mm wide.	m2	10
	B : 2 E : 2 H : 1 L : 3		
	N : 1 R : 1 Z : 0		

Carried to Collection

SECTION NO.2 - BUILDING WORKS
Bill No. 9
PLASTERING
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	<u>BILL NO.10</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 July 2014).			
	<u>Roof gutters, rainwater pipes, etc.</u>			
	<u>Powder coated seamless aluminium rainwater gutters, downpipes and accessories</u>			
1	125 x 115mm Gutter fixed to fascia at maximum 600mm centres with and including proprietary fixings. B : 9 E : 8 H : 7 L : 10 N : 5 R : 5 Z : 0	m	44	
2	Extra over aluminium gutter for forming discharge outlet to suit 100 x 75mm downpipe. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9	
3	Extra over gutter for stopped end. B : 2 E : 2 H : 2 L : 2 N : 2 R : 2 Z : 0	No	12	
4	100 x 75mm Rainwater downpipe fixed to wall with and including proprietary holderbats. B : 6 E : 6 H : 3 L : 6 N : 3 R : 3 Z : 0	m	27	
5	Extra over rainwater downpipe for bend. B : 6 E : 6 H : 3 L : 6 N : 3 R : 3 Z : 0	No	27	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 10			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			
			R	

PIPEWORK, ETC.

Pipes, pipe fittings, etc.

WATER SUPPLIES

Class 2 copper pipes with straight compression fittings

1	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	138
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B : 28 E : 24 H : 12 L : 30
N : 22 R : 22 Z : 0

Extra over copper pipes for brass compression fittings

2	15mm Fittings.	No	48
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B : 10 E : 8 H : 4 L : 10
N : 8 R : 8 Z : 0

Extra over copper pipes for capillary fittings with soldered joints

3	15mm Fittings.	No	138
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B : 28 E : 24 H : 12 L : 30
N : 22 R : 22 Z : 0

SOIL DRAINAGE

uPVC Pipes with solvent welded straight joints :

4	40mm Pipes.	m	36
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B : 6 E : 8 H : 4 L : 10
N : 4 R : 4 Z : 0

5	50mm Pipes.	m	30
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B : 10 E : 0 H : 0 L : 0
N : 10 R : 10 Z : 0

White uPVC vent pipe in single lengths :

6	110mm Diameter vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	92
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B : 16 E : 20 H : 16 L : 24
N : 8 R : 8 Z : 0

Carried to Collection

SECTION NO.2 - BUILDING WORKS

Bill No. 10

PLUMBING AND DRAINAGE (PROVISIONAL)

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

R

<u>Extra over uPVC pipes for solvent welded fittings :</u>				
1	40mm Plain bend. B : 3 E : 4 H : 2 L : 5 N : 2 R : 2 Z : 0	No	18	
2	50mm Plain bend. B : 4 E : 0 H : 0 L : 0 N : 4 R : 4 Z : 0	No	12	
<u>Extra over uPVC pipes for fittings</u>				
3	Black PVC whirlybird vent capping over the 110mm vent pipe. B : 4 E : 5 H : 4 L : 6 N : 2 R : 2 Z : 0	No	23	
<u>Inspection chambers, catch pits, etc.</u>				
<u>Cast iron covers and frames</u>				
4	450 x 600mm x 72kg Type 8A coated cast iron double seal manhole cover and frame, including bedding and grouting frame on concrete, including providing with hot dipped galvanised steel locking bar and padlock. B : 2 E : 2 H : 2 L : 3 N : 1 R : 1 Z : 0	No	11	
<u>Soakage pits, french drains, etc.</u>				
<u>Testing</u>				
5	Allow for testing the plumbing installation in accordance with the National Building Regulations.		Item	
<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>				
<u>Plastic sanitaryware</u>				
6	Bambi Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. B : 0 E : 4 H : 0 L : 0 N : 0 R : 0 Z : 0	No	4	
Carried to Collection				
SECTION NO.2 - BUILDING WORKS				
Bill No. 10				
PLUMBING AND DRAINAGE (PROVISIONAL)				
ZWELIXOLILE PS				
PROVISIONAL BILLS OF QUANTITIES				

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1	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. B : 0 E : 0 H : 4 L : 5 N : 2 R : 2 Z : 0	No	13
2	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. B : 4 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	6
<u>White glazed vitreous china ware :</u>			
3	"Vaal 7050" or equally approved washhand basin, size 510 x 405mm, with two tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts. B : 3 E : 4 H : 2 L : 5 N : 2 R : 2 Z : 0	No	18
4	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets . B : 2 E : 0 H : 0 L : 0 N : 2 R : 2 Z : 0	No	6
5	"Vaal" or equally approved urinal division size, 400 x 100 x 700mm high including plugs and proprietary hanger brackets . B : 2 E : 0 H : 0 L : 0 N : 2 R : 2 Z : 0	m	6
<u>Grade 304 stainless steel ware :</u>			
<u>Sanitary fitting sundries</u>			
6	"N-SBIN-12-SA" or equally approved 12 Litre pedal sanitary bin, size 463 x 140 x 480mm. B : 3 E : 1 H : 4 L : 6 N : 0 R : 0 Z : 0	No	14

Carried to Collection

R

SECTION NO.2 - BUILDING WORKS

Bill No. 10

PLUMBING AND DRAINAGE (PROVISIONAL)

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

<u>Grade 304 stainless steel ware :</u>					
1	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws. B : 0 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	2		
2	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws. B : 0 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	2		
<u>Sanitary fitting sundries</u>					
3	Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall. B : 4 E : 5 H : 4 L : 6 N : 2 R : 2 Z : 0	No	23		
4	Heavy-duty double-flap hinged toilet seat and cover. B : 4 E : 5 H : 4 L : 6 N : 2 R : 2 Z : 0	No	23		
<u>Tanks, geysers, etc.</u>					
<u>Rainwater tanks</u>					
5	5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet , fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection) B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9		
6	Hole through top of tank lid for 100mm diameter pipe. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9		
7	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. B : 2 E : 2 H : 1 L : 2 N : 1 R : 1 Z : 0	No	9		
Carried to Collection					
SECTION NO.2 - BUILDING WORKS					
Bill No. 10					
PLUMBING AND DRAINAGE (PROVISIONAL)					
ZWELIXOLILE PS					
PROVISIONAL BILLS OF QUANTITIES					

R

1	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. B : 8 E : 8 H : 4 L : 8 N : 4 R : 4 Z : 0 <u>Taps, valves, etc.</u> <u>Solid cast brass taps, valves, etc.</u>	No	36
2	15mm Ball-o-stop valve. B : 6 E : 8 H : 4 L : 10 N : 4 R : 4 Z : 0	No	36
3	15mm Brass ball-o-stop. B : 3 E : 3 H : 2 L : 4 N : 2 R : 2 Z : 0	No	16
4	15mm Chromium plated square type elbow action pillartap. B : 0 E : 1 H : 0 L : 1 N : 0 R : 0 Z : 0	No	2
5	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control. B : 8 E : 6 H : 4 L : 8 N : 6 R : 6 Z : 0	No	38
6	22mm Brass non-return valve. B : 2 E : 2 H : 1 L : 3 N : 1 R : 1 Z : 0 <u>Waste unions, traps, etc.</u> <u>Outlets, traps, etc :</u>	No	9
7	38mm Chromium plated brass slotted basin waste outlet with plug, chain and chain stay. B : 3 E : 4 H : 2 L : 5 N : 2 R : 2 Z : 0	No	18
8	40mm Chromium plated brass basin bottle trap. B : 3 E : 4 H : 2 L : 5 N : 2 R : 2 Z : 0	No	18
Carried to Collection			
SECTION NO.2 - BUILDING WORKS			
Bill No. 10			
PLUMBING AND DRAINAGE (PROVISIONAL)			
ZWELIXOLILE PS			
PROVISIONAL BILLS OF QUANTITIES			

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Item No		Quantity	Rate	Amount
<u>BILL NO.11</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 July 2014).				
<u>PAINTWORK</u>				
<u>PAINT ON CONCRETE, PLASTER, ETC</u>				
<u>Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on :</u>				
1	Internal smooth plastered walls. B : 128 E : 99 H : 96 L : 142 N : 72 R : 72 Z : 0	m2	608	
<u>Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:</u>				
2	Concrete floated or screeded floors B : 23 E : 22 H : 16 L : 24 N : 10 R : 10 Z : 0	m2	105	
3	Granolithic skirting not exceeding 300mm girth. B : 46 E : 41 H : 34 L : 48 N : 20 R : 20 Z : 0	m	209	
<u>PAINT ON TIMBER</u>				
<u>Prime or oil on :</u>				
4	Backs of frames or linings not exceeding 300mm girth. B : 29 E : 20 H : 24 L : 34 N : 15 R : 15 Z : 0	m	138	
Carried to Collection				
SECTION NO.2 - BUILDING WORKS Bill No. 11 PAINTWORK ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES				

	<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>			
1	Surfaces of flush panel doors. B : 0 E : 12 H : 0 L : 0 N : 0 R : 0 Z : 0	m2	12	
2	Surfaces of frames and linings. B : 0 E : 4 H : 0 L : 0 N : 0 R : 0 Z : 0	m2	4	
	<u>Prepare and apply two coats carbolineum wood preserver on :</u>			
3	General surfaces of roof timbers. B : 14 E : 12 H : 11 L : 16 N : 8 R : 8 Z : 0	m2	69	
4	General surfaces of roof timbers not exceeding 300mm girth. B : 55 E : 51 H : 39 L : 62 N : 30 R : 30 Z : 0	m	266	
	<u>Prepare and apply three coats interior quality clear polyurethane varnish on :</u>			
5	Surfaces of flush panel doors. B : 21 E : 5 H : 17 L : 25 N : 10 R : 10 Z : 0	m2	88	
6	Surfaces of frames and linings. B : 7 E : 1 H : 6 L : 9 N : 4 R : 4 Z : 0	m2	31	
	<u>PAINT ON METALWORK</u>			
	<u>One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :</u>			
7	Hot dipped galvanised steel gates. B : 7 E : 4 H : 4 L : 4 N : 4 R : 4 Z : 0	m2	26	

Carried to Collection

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SECTION NO.2 - BUILDING WORKS
Bill No. 11
PAINTWORK
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

PAINT ON FIBRE-CEMENT

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

1	Internal fibre cement cills not exceeding 300mm girth.	m	34
	B : 6 E : 5 H : 4 L : 10		
	N : 5 R : 5 Z : 0		

Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :

2	External fibre cement fascia boarding including priming cover strips.	m2	21
	B : 4 E : 4 H : 3 L : 5		
	N : 2 R : 2 Z : 0		

3	External fibre cement bargeboard including priming cover strips.	m2	68
	B : 13 E : 12 H : 11 L : 14		
	N : 10 R : 10 Z : 0		

PAINT ON PVC

Prepare and apply two coats black PVA paint on:

4	Vent pipes.	m2	43
	B : 8 E : 9 H : 8 L : 11		
	N : 4 R : 4 Z : 0		

Carried to Collection

SECTION NO.2 - BUILDING WORKS

Bill No. 11

PAINTWORK

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

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Item No		Quantity	Rate	Amount
	BILL No. 12			
	EXTERNAL WORKS			
	Note:			
	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 FOLLOWING IN TEMPORARY BARRIERS, SCREENS,ECT.			
	TEMPORARY HOARDING			
	Note: Contractor to price for the taking down and carting away hoarding on completion.			
	Site clearance			
1	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs, etc., not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	300	
2	External barricade screen, 1800mm high overall, comprising 100-125mm diameter tanalith treated gum poles planted 650mm deep in ground at 3000mm centres comprising of six strands of 4mm galvanised straining wires (evenly spaced) secured to posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and yellow and orange barrier shade cloth fixed to straining wires with 20Mpa mass concrete base size 400 x 400 x 550mm thick with sloping top surface including all necessary excavations, backfilling, risk of collapse and carting away surplus material, etc.	m	300	
	Carried to Collection		R	
	SECTION NO.2 - BUILDING WORKS Bill No. 12 EXTERNAL WORKS ZWELIXOLILE PS PROVISIONAL BILLS OF QUANTITIES			

Hot dipped galvanised steel gates

- | | | | |
|---|--|----|---|
| 1 | Security fence single gate, size 1000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth. | No | 2 |
| 2 | Security fence double gate, size 5000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth. | No | 1 |

DEMOLITIONS AND SITE CLEARANCE

Demolitions

Brickwork building structures

- | | | | |
|---|---|----|---|
| 3 | Demolish and cart away single storey toilet block complete, size on plan 8600mm long x 3500mm wide x approximately 3000mm high, comprised of corrugated iron roof covering on mono-pitch timber rafters, with facebrick, plastered and painted walls, ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site. | No | 2 |
| 4 | Allow for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out. | No | 2 |
| 5 | Allow for breaking down and removing from site entire pit latrine structure including any structure that may be inside the pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). Backfill existing hole with imported filling in max. 150mm layers and compact to 95% MOD AASHTO density. | No | 2 |

Carried to Collection

SECTION NO.2 - BUILDING WORKS

Bill No. 12

EXTERNAL WORKS

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

R

	<u>Fencing</u>				
1	Take down and cart away stock fencing, 1200mm high, including excavating out timber intermediate, corner or straining posts, at approximately 10000mm centres, backfilling of holes, etc.	m	100		
	<u>SITE CLEARANCE</u>				
	<u>Site clearance</u>				
2	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	950		
3	Strip topsoil, average 200mm thick, including depositing in stockpiles on site for later re-use.	m3	143		
	<u>BULK EXCAVATION, FILLING, ETC</u>				
	<u>Classification of material to be excavated</u>				
	Detailed geotechnical data sheets for the area of the works have been included at the back of these Bills of Quantities for the Contractor's information.				
	<u>OPEN FACE EXCAVATIONS</u>				
4	Open face excavation in earth in cutting and setting aside in spoil heaps for re-use or carting away.	m3	475		
	<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	475		
	<u>Filling</u>				
6	Earth filling from the excavations and/or stockpiles deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density over site.	m3	238		
	Carried to Collection			R	
	SECTION NO.2 - BUILDING WORKS				
	Bill No. 12				
	EXTERNAL WORKS				
	ZWELIXOLILE PS				
	PROVISIONAL BILLS OF QUANTITIES				

1	G5 Material, selected and supplied by the contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density over site.	m3	190		
	<u>Compaction of surfaces</u>				
2	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	950		
	<u>Tests</u>				
3	Allow for Mod AASHTO density tests on filling.	No	48		
	<u>THE FOLLOWING IN APRONS</u>				
	<u>EXCAVATIONS FOR FOUNDATIONS, ETC. (Labour intensive)</u>				
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
4	Reduced levels between buildings, retaining walls, etc.	m3	12		
	<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	12		
	<u>BASECOURSES</u>				
6	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	12		
7	G5 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under pavings.	m3	12		
	<u>Sundries</u>				
8	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	81		
	Carried to Collection			R	
	SECTION NO.2 - BUILDING WORKS				
	Bill No. 12				
	EXTERNAL WORKS				
	ZWELIXOLILE PS				
	PROVISIONAL BILLS OF QUANTITIES				

<u>Tests</u>				
1	Allow for Mod AASHTO density tests on filling.	No	8	
	<u>Reinforced concrete 25MPa (19mm stone) in:</u>			
2	Edge thickening.	m3	1	
3	Surface beds cast in panels including temporary formwork.	m3	8	
	<u>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)	Sets	4	
	<u>Surface treatment</u>			
5	Float surface of concrete to a wood float finish.	m2	81	
	<u>Edges, risers, ends and reveals</u>			
6	Edge, riser, etc exceeding 300mm high.	m	107	
	<u>Movement joints</u>			
	<u>To horizontal surfaces</u>			
7	Form toggle joint in concrete surface not exceeding 300mm thick including applying one coat of whitewash or bitumen to one face.	m	20	
8	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces.	m	53	
9	Remove hinged blocking piece and fill 10 x 10mm top surface cavity with "Sikaflex Pro2HP" or other equal approved two part polyurethane sealer.	m	53	
Carried to Collection				
SECTION NO.2 - BUILDING WORKS				
Bill No. 12				
EXTERNAL WORKS				
ZWELIXOLILE PS				
PROVISIONAL BILLS OF QUANTITIES				

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REINFORCEMENT (PROVISIONAL)

High tensile welded steel mesh reinforcement :

1	Ref: 395 cast into concrete surfaces.	m2	81
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SHEET WATERPROOFING

350 Micron orange polyethylene sheeting :

2	Laid under solid floor.	m2	81
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Carried to Collection

SECTION NO.2 - BUILDING WORKS

Bill No. 12

EXTERNAL WORKS

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

R

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Item No		Quantity	Rate	Amount
	<u>BILL No. 13</u>			
	<u>EXTERNAL PLUMBING & DRAINAGE</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 SUB-SURFACE WATER DRAINAGE</u>			
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>HDPE Corrugated single wall perforated subsoil drainage pipe laid in trenches not exceeding 1000mm deep including all necessary excavation, backfilling, etc.</u>			
1	160mm Pipes.	m	100	
	<u>Extra over HDPE pipes for fittings :</u>			
2	Extra for 160mm stop ends.	No	20	
3	Extra for 160mm bend.	No	30	
4	Extra for 160mm junction.	No	10	
	<u>Pipe insulation and protection</u>			
5	"Kaymat U24" or equally approved needle punched nonwoven polyester geotextile filter jacket laid vertically behind retaining blocks wall.	m2	120	
6	19mm Crushed stone aggregate in surround to pipe, size overall 300 x 300mm.	m	100	
	Carried to Collection			
	SECTION NO.2 - BUILDING WORKS			
	Bill No. 13			
	EXTERNAL PLUMBING AND DRAINAGE			
	ZWELIXOLILE PS			
	PROVISIONAL BILLS OF QUANTITIES			

R

THE FOLLOWING IN SOAKAWAYS

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	96
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Excavations in earth of more difficult character

2	Extra over excavations in earth for excavation in soft rock.	m3	10
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3	Extra over excavations in earth for excavation in hard rock.	m3	5
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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	72
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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	224
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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	24
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8	19mm Uniformly graded and washed concrete stone laid loose on filter fabric (elsewhere).	m3	72
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Carried to Collection

R

SECTION NO.2 - BUILDING WORKS

Bill No. 13

EXTERNAL PLUMBING AND DRAINAGE

ZWELIXOLILE PS

PROVISIONAL BILLS OF QUANTITIES

Filter fabric

1	Grade 3 needle punched non-woven synthetic fibre filter fabric laid in bottom of chamber.	m2	320
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Carried to Collection

SECTION NO.2 - BUILDING WORKS
Bill No. 13
EXTERNAL PLUMBING AND DRAINAGE
ZWELIXOLILE PS
PROVISIONAL BILLS OF QUANTITIES

R

<u>Pipes, pipe fittings, etc.</u>					
<u>UTL420 PVC Perforated slotted heavy duty pipe</u>					
1	110mm Diameter pipe laid in trench (elsewhere).	m	40		
<u>Testing</u>					
2	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.			Item	
<u>THE FOLLOWING IN STORMWATER DRAINAGE</u>					
<u>Surface water channels</u>					
3	Reinforced concrete 25MPa V-shaped open surface water channel size 700mm wide x 80mm thick extreme and finished smooth on all exposed surfaces in untinted granolithic with angles rounded, laid to falls in lengths not exceeding 2000mm on a well rammed earth bottom, jointed in 3.1 cement mortar including shallow excavation, one layer 395 reinforced mesh, requisite formwork, ramming and depositing and levelling spoil on site where directed.	m	340		
<u>Extra over surface water channels for :</u>					
4	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	66		
5	Extra over for widening concrete to form spreader 2000mm wide extreme for a length of 700mm and bedding hard burnt brick diffusers cast in concrete spaced at 200mm centre spacings to falls including brushing concrete between bricks.	No	11		
Carried to Collection				R	
SECTION NO.2 - BUILDING WORKS					
Bill No. 13					
EXTERNAL PLUMBING AND DRAINAGE					
ZWELIXOLILE PS					
PROVISIONAL BILLS OF QUANTITIES					

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Section No	FINAL SUMMARY	Page No		Amount
1	SECTION NO.1 - PRELIMINARIES AND GENERAL	43		
2	SECTION NO.2 - BUILDING WORKS	108		
3	SECTION NO.3 - PROVISIONAL SUMS, BUDGETARY ALLOWANCES,ECT.	109		
	Sub-Total		R	
	CONTINGENCY PROVISIONS			
	The Tenderer is to allow hereunder for 5 (Five) percent of the Nett Builders Work Sub-Total to be used as a Budgetary Provision for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.	%		
	Sub - Total		R	
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R	
	Sub - Total		R	
	Credit for old materials for demolition/alterations.	Item		
			</	