

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

DEFINITIONS

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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<p>"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</p> <p>Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"</p> <p>Clause 1.6.4 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p>	<p>Item</p>	<p>Item</p>
<p>OBJECTIVE AND PREPARATION</p> <p>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</p> <p>Clause 2.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p>	<p>Item</p>	<p>Item</p>
<p>A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>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</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p>	<p>Item</p>	<p>Item</p>

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1	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
3	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
4	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
5	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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1	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p>	R		
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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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<p>10.7.2 Injury to persons or loss of or damage to property</p> <p>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</p> <p>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</p> <p>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</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p>	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>	<p>Item</p> <p>R</p>
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1	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
3	<p>A13.0 No clause</p>	N/A	
4	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.2.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p>		
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14.2.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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

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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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<p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>1 A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>2 A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>3 A18.0 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>4 A19.0 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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1	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R
2	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R
3	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R
4	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R
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<u>COMPLETION</u>			
1	A24.0 PRACTICAL COMPLETION		
	Clause 24.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
2	A25.0 WORKS COMPLETION		
	Clause 25.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
3	A26.0 FINAL COMPLETION		
	Clause 26.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
4	A27.0 LATENT DEFECTS LIABILITY PERIOD		
	Clause 27.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
5	A28.0 SECTIONAL COMPLETION		
	Clause 28.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
6	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION		
	Clause 29.0		
	Clause 29.2.5 is amended by replacing it with:		
	No clause		
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1	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>PAYMENT</p>	Item		
2	<p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p>	Carried to Collection	R	

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	Clause 31.12 is amended by deleting the following: Payment shall be subject to the employer giving the contractor a tax invoice for the amount due 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	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	Item	Item
2	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	Item	Item
3	<p>CANCELLATION</p> <p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p>	Item	Item	Item

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Clause 36.0 is amended by the addition of the following clause:		
36.3 Remove reference to "No clause", and replace "principal agent" with "employer"		
36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever		
Fixed: _____ Value related: _____ Time related: _____	Item	
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	
A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT		
Clause 38.0		
Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"		
Clause 38.0 is amended by the addition of the following clause:		
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38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Clause 39.0

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

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

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<p><u>DISPUTE</u></p> <p>1 A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>
<p><u>SUBSTITUTE PROVISIONS</u></p> <p>2 A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p style="text-align: center;">Item</p>	
<p><u>CONTRACT VARIABLES</u></p> <p>3 A42.0 THE SCHEDULE (C1.2)</p> <p>Clause 42.0</p> <p>Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p style="text-align: center;">Item</p>	
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>		

SECTION B: JBCC PRELIMINARIES		
B1.0 DEFINITIONS AND INTERPRETATION		
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		
B2.1 Checking of documents		
Fixed: _____ Value related: _____ Time related: _____	Item	
B2.2 Provisional bills of quantities		
Fixed: _____ Value related: _____ Time related: _____	Item	
B2.3 Availability of construction documentation		
Fixed: _____ Value related: _____ Time related: _____	Item	
B2.4 Interests of agents		
Fixed: _____ Value related: _____ Time related: _____	Item	
B2.5 Priced documents		
Fixed: _____ Value related: _____ Time related: _____	Item	
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: _____	Item	
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B3.0 THE SITE			
1	B3.1 Defined works area	Fixed: _____ Value related: _____ Time related: _____	Item
2	B3.2 Geotechnical investigation	Fixed: _____ Value related: _____ Time related: _____	Item
3	B3.3 Inspection of the site	Fixed: _____ Value related: _____ Time related: _____	Item
4	B3.4 Existing premises occupied	Fixed: _____ Value related: _____ Time related: _____	Item
5	B3.5 Previous work - dimensional accuracy	Fixed: _____ Value related: _____ Time related: _____	Item
6	B3.6 Previous work - defects	Fixed: _____ Value related: _____ Time related: _____	Item
7	B3.7 Services - known	Fixed: _____ Value related: _____ Time related: _____	Item
8	B3.8 Services - unknown	Fixed: _____ Value related: _____ Time related: _____	Item
9	B3.9 Protection of trees	Fixed: _____ Value related: _____ Time related: _____	Item
Carried to Collection			R
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1	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item	R
2	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item	R
B4.0 MANAGEMENT OF CONTRACT			
3	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____	Item	R
4	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item	R
5	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item	R
6	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item	R
7	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item	R
B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS			
8	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item	R
Carried to Collection			
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1	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item	
2	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item	
3	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
4	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item	
5	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item	
6	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item	
7	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item	
8	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item	
9	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item	
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	B7.0 TEMPORARY SERVICES		
1	B7.1 Location	Item	
	Fixed: _____ Value related: _____ Time related: _____		
2	B7.2 Water	Item	
	Fixed: _____ Value related: _____ Time related: _____		
3	B7.3 Electricity	Item	
	Fixed: _____ Value related: _____ Time related: _____		
4	B7.4 Telecommunication facilities	Item	
	Fixed: _____ Value related: _____ Time related: _____		
5	B7.5 Ablution facilities	Item	
	Fixed: _____ Value related: _____ Time related: _____		
	B8.0 PRIME COST AMOUNTS		
6	B8.1 Responsibility for prime cost amounts	Item	
	Fixed: _____ Value related: _____ Time related: _____		
	B9.0 ATTENDANCE ON N/S SUBCONTRACTORS		
7	B9.1 General attendance	Item	
	Fixed: _____ Value related: _____ Time related: _____		
8	B9.2 Special attendance	Item	
	Fixed: _____ Value related: _____ Time related: _____		
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1	<p>B9.3 Commissioning - fuel, water and electricity</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
2	<p>B10.0 FINANCIAL ASPECTS</p> <p>B10.1 Statutory taxes, duties and levies</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<p>B10.2 Payment for preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>B10.3 Adjustment of preliminaries</p> <p>Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>B10.4 Payment certificate cash flow</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
6	<p>B11.0 GENERAL</p> <p>B11.1 Protection of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>B11.2 Protection / isolation of existing / sectionally occupied works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item	
2	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item	
3	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item	
4	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item	
5	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item	
6	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item	
7	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item	
8	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item	
9	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item	
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1	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
2	<p>B12.0 SCHEDULE OF VARIABLES</p> <p>B12.1 Schedule of variables</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries</p> <p>Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</p>	Item	
	<p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities [2.2] The quantities are provisional</p> <p style="text-align: center;">YES</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i></p> <p style="text-align: center;">YES</p> <p>12.1.3 Interests of agents [2.4] Details:</p> <p>12.1.4 Defined works area [3.1] Details:</p>		
	<p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>	R	

<p>12.1.5 Geotechnical investigation [3.2] Details:</p> <p>12.1.6 Existing premises occupied [3.4] Specific requirements:</p> <p>12.1.7 Previous work - dimensional accuracy [3.5] Details:</p> <p>12.1.8 Previous work - defects [3.6] Details:</p> <p>12.1.9 Services - known [3.7] Details:</p> <p>12.1.10 Protection of trees [3.9] Specific requirements:</p> <p>12.1.11 Inspection of adjoining properties [3.11] Specific requirements:</p> <p>12.1.12 Enclosure of the works [6.2] Specific requirements:</p> <p>12.1.13 Offices [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times</p>	<p>Carried to Collection</p> <p>R</p>
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<p>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</p>	<p>NO</p> <p>Specific requirements:</p>	<p>NO</p> <p>Option B (by employer - free of charge)</p> <p>NO</p> <p>Option C (by employer - metered)</p> <p>YES</p>	<p>Carried to Collection</p> <p>R</p>
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<p>12.1.17 Electricity [7.3] Option A (by contractor)</p> <p style="text-align: right;">NO</p> <p>Option B (by employer - free of charge)</p> <p style="text-align: right;">NO</p> <p>Option C (by employer - metered)</p> <p style="text-align: right;">YES</p> <p>12.1.18 Telecommunications [7.4] Telephone</p> <p style="text-align: right;">YES</p> <p>Facsimile</p> <p style="text-align: right;">YES</p> <p>E-mail</p> <p style="text-align: right;">YES</p> <p>12.1.19 Ablution facilities [7.5] Option A (by contractor)</p> <p style="text-align: right;">YES</p> <p>Option B (by employer)</p> <p style="text-align: right;">NO</p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required</p> <p style="text-align: right;">NO</p>	<p>Carried to Collection</p> <p>R</p>
<p>Section No. 1</p> <p>Bill No. 1</p> <p>PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>	

<p>12.1.21 Special attendance [9.2] Subcontractor (1) details:</p> <p style="margin-left: 20px;">Subcontractor (2) details:</p> <p style="margin-left: 20px;">Subcontractor (3) details:</p> <p style="margin-left: 20px;">Subcontractor (4) details:</p> <p>12.1.22 Protection of the works [11.1] Specific requirements:</p> <p>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</p> <p>12.1.24 Environmental disturbance [11.6] Specific requirements:</p>			
	NO		
	Option B (calculated)	YES	
			R
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12.2.2 <i>Adjustment of preliminaries</i> [10.3] Option A (three categories)	NO			
	Option B (detailed breakdown)			
12.2.3 <i>Additional agreed preliminaries items</i> Details:	YES			
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SECTION C: SPECIFIC PRELIMINARIES

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

1 C1.0 CONTRACT DRAWINGS

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 C2.0 GENERAL PREAMBLES

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

Fixed: _____ Value related: _____
Time related: _____

Item

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1	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R
2	<p>C4.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	R	R

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<p>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: _____</p> <p>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: _____</p> <p>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: _____</p> <p>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: _____</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>Carried to Collection</p> <p>R</p>
<p>Section No. 1 Bill No. 1 PRELIMINARIES AND GENERAL</p> <p>PROVISIONAL BILLS OF QUANTITIES</p>		

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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: _____

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1	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item		
2	Provision of full time Health and Safety Officer for the entire construction period.	Item		
3	Induction training of personnel.	No		
4	Provision of first aid boxes.	No		
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>				
5	Reflective vests.	No		
6	Hard hats.	No		
7	Protective foot wear.	No		
8	Ear Plugs.	No		
9	Dust Masks.	No		
<u>Costs of Medical Certificates and Medical Surveillance:</u>				
10	Initial (baseline) medical examinations.	No		
11	Exit Examinations.	No		
<u>Noise Monitoring:</u>				
12	Establishment of noise zones.	No		
13	Audiograms.	No		
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Item No		Quantity	Rate	Amount
	<u>SECTION No. 2 - BUILDING WORKS</u>			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC.</u>			
	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).			
	<u>DEMOLITIONS</u>			
	<u>Ordinary demolitions</u>			
	Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor.			
	<u>CARPENTRY AND JOINERY</u>			
	<u>Timber doors and frames</u>			
1	Take out from one brick wall and cart away single timber door and frame size 900mm wide x 2100mm high including preparing reveals to receive new frame (elsewhere).	No	8	
	<u>CEILINGS AND PARTITIONS</u>			
	<u>Internally</u>			
2	Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, brandering, supporting structures, etc.	m ²	11	
3	Take down and cart away gypsum coved cornice.	m	65	
	<u>IRONMONGERY</u>			
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1 General ironmongery	No	31	
2 Take out from steel door and cart away, cylinder or mortice lockset.	No	31	
PLUMBING AND DRAINAGE			
<u>Piping, fittings, etc.</u>			
3 Take off from walls, ceilings, etc. and cart away copper/polycrop water supply piping, fittings, valves, etc. of various diameters including temporary stopping of supply where necessary.	m	132	
4 Take off from walls, ceilings, etc. and cart away PVC waste water piping and fittings of various diameters.	m	88	
<u>Sanitaryware</u>			
5 Demolish and cart away white glazed WC cistern including stopping off water supply.	No	2	
6 Demolish and cart away white glazed WC pan and cistern complete including stopping off water supply.	No	24	
7 Demolish and cart away stainless steel sink or washtrough including stopping off water supply.	No	20	
8 Demolish and cart away white glazed stall urinal 3000mm long including mass concrete step, 175mm high, including stopping off water supply.	No	2	
<u>Sundries</u>			
9 Take down and cart away toilet roll holders.	No	31	
PLASTERING			
<u>Walls</u>			
10 Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere).	m2	90	
TILING			
R			

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	<u>Floors</u>				
1	Hack up ceramic floor tiling and cart away including preparing surface to receive new tiling (elsewhere).	m2	122		
2	Hack up 100mm high ceramic skirting and cart away including preparing surface to receive new tiling (elsewhere).	m	205		
	<u>Walls</u>				
3	Hack up ceramic wall tiling and cart away including preparing surface to receive new tiling (elsewhere).	m2	3		
	<u>GLAZING</u>				
4	Take out 4mm thick glass from galvanised steel window including preparing frame to receive new glass (elsewhere).	m2	7		
	<u>REFURBISHMENT, PREPARATORY WORKS, ETC.</u>				
	<u>General repair work</u>				
5	Hack plaster from brickwork for a width of 100mm either side of crack, nail galvanised stretch plate over crack with steel nails at 200mm centres to receive plaster (elsewhere).	m	10		
	<u>METAL WORK</u>				
	<u>Servicing of windows, doors, etc.</u>				
6	Service window, size approximately 600 x 600mm high with top hung opening out light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	38		
	<u>Carried to Collection</u>				
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COLLECTION		Page No	Amount
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		45	
		46	
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Item No		Quantity	Rate	Amount
	<u>BILL No. 2</u>			
	<u>WATERPROOFING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>LIQUID WATERPROOFING (Labour intensive)</u>			
	<u>Two coats "ABE Brickseal"</u>			
1	Vertically on bagged surface of brickwork.	m ²	187	
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Sundry elements</u>			
2	Seal and point around metal window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	91	
3	Seal with an approved anti-fungicidal white silicone sealant junction between sanitary fitting and worktop and/or wall tiling.	m	79	
	Carried Forward to Summary of Section No. 2			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 3</u>			
	<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>JOINERY</u>			
	<u>Doors, windows, sashes, etc.</u>			
	<u>Servicing existing timber doors, etc.</u>			
1	Service and adjust existing single timber door and steel frame, size 900 x 2100mm high including oiling and easing hinges, preparing to receive new lock, touching up and making good.	No	31	
	<u>Semi-solid flush panel doors :</u>			
2	40mm Semi-solid core flush door, size 813 x 1732mm high, hung 150mm above floor finish, with commercial grade veneer both sides and concealed edge strips.	No	2	
3	40mm Semi-solid core flush door, size 813 x 2032mm high with commercial grade veneer both sides and concealed edge strips.(D4)	No	1	
	<u>Wrot hardwood :</u>			
4	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	8	
	Carried to Collection			
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<u>Frames, rails, skirtings, etc.</u>			
<u>Meranti timber door frames</u>			
<u>Note :</u>			
All units are to be constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face			
70 x 108mm Rebated meranti jab linings fixed to walls.	m	7	
Framed frame, to suit single door size 813 x 2032mm high overall.	No	9	
<u>Sundries</u>			
19mm Hardwood quadrant moulding planted on.	m	51	
10 x 140mm Door frame anchor countersunk and pelleted in timber frame, at approximately 600mm centres, including forming mortice in brickwork or concrete.	No	104	
Carried to Collection			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 4</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS</u>			
	<u>FLOORING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>INTERNAL NAILED UP CEILINGS</u>			
	<u>Work to existing ceilings</u>			
1	Check fibrecement ceiling complete, including cover strips, for alignment/rigidity and where necessary re-nail ceiling or cover strips to existing members to leave ceiling level and secure.	m2	122	
	<u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti coverstrips over joints:</u>			
2	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	35	
	<u>Trap doors</u>			
3	Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	2	
	Carried to Collection			
	Section No. 2			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 5</u>			
	<u>IRONMONGERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>IRONMONGERY TO TIMBER</u>			
	<u>Hinges, bolts, etc.</u>			
1	100 x 75mm Heavy duty brass butt hinges.	No	30	
	<u>Hooks</u>			
2	150mm Brass cabin hook and eye screwed to and including 69 x 69 x 32mm chamfered hardwood block plugged to wall.	No	8	
	<u>Push plates, kicking plates, indicator plates, etc.</u>			
	3mm Thick x 32mm high blue perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame			
3	Sign with "MALE ABLUTIONS" inscribed.	No	4	
4	Sign with "FEMALE ABLUTIONS" inscribed.	No	4	
5	Sign with "STAFF" inscribed.	No	2	
	<u>Door stops</u>			
6	Black rubber door stop plugged to wall or floor.	No	42	
	Carried to Collection			
	Section No. 2			
	Bill No. 5			
	IRONMONGERY			
	PROVISIONAL BILLS OF QUANTITIES			

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<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
1	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish.	No	38
2	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt.	No	4
<u>Handles, furniture, etc.</u>			
3	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets)	No	42
<u>Stops, holders, hooks, etc.</u>			
4	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door.	No	4
<u>Sundries</u>			
5	50mm Plastic key tag.	No	42
Carried to Collection			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<u>TILING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>INTERNAL FLOOR TILING</u>			
	Ceramic tiles, size 600 x 600mm (P.C. Amount R300.00/m ²) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:			
1	On floors.	m ²	122	
	<u>INTERNAL WALL TILING</u>			
	Ceramic tiles, size 600 x 600mm (P.C. Amount R300.00/m ²) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:			
2	On walls.	m ²	3	
	<u>Treads, risers, cills, copings, skirtings, etc.</u>			
	Ceramic tiles, size 600 x 600mm (P.C. Amount R300.00/m ²) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:			
3	Cut tile skirting, 100mm high.	m	205	
	<u>Miscellaneous</u>			
4	10mm Thick aluminium edge trim.	m	205	
	<u>Carried Forward to Summary of Section No. 2</u>			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 10 polycop pipes with straight compression fittings</u>			
1	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	83	
2	22mm Ditto.	m	98	
3	15mm Pipe chased into brickwork.	m	100	
4	22mm Ditto.	m	52	
	<u>Extra over copper pipes for brass compression fittings</u>			
5	15mm Fittings.	No	196	
6	22mm Fittings.	No	136	
	<u>Connections</u>			
	<u>Connection of new to existing pipes</u>			
7	Connection of 32mm diameter HDPE to 22mm diameter polycop pipes including all necessary reducers, saddles, etc.	No	6	
	Carried to Collection			
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<u>Testing :</u>			
1	Allow for testing the preceding water supply installation in accordance with the National Building Regulations.	Item	
<u>SOIL DRAINAGE</u>			
<u>uPVC Pipes with solvent welded straight joints :</u>			
2	50mm Pipes.	m	94
3	110mm Pipes.	m	72
<u>Extra over uPVC pipes for solvent welded fittings :</u>			
4	50mm Plain bend.	No	52
5	110mm Plain bend.	No	36
6	50mm Access bend.	No	26
7	110mm Access bend.	No	24
<u>Gulleys, grease traps, etc.</u>			
8	100mm Diameter uPVC gully trap with universal gully head set flush in with finished pavement level including encasing in 15MPa concrete 100mm thick all round.	No	5
9	430 x 430 x 175mm Precast concrete gully top, bedded over gully in cement mortar.	No	5
<u>Testing :</u>			
10	Allow for testing the preceding sanitary plumbing installation in accordance with the National Building Regulations.	Item	
<u>SANITARY FITTINGS, TANKS, GEYSERS, ETC.</u>			
<u>Sanitary fittings, etc.</u>			
<u>Existing sanitary fittings</u>			
11	Service white glazed WC cistern including replacing rubber outlet seal, checking ball float valve mechanism complete and leave in perfect working condition.	No	7
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1	Tighten loose or replace missing bolts to hanger brackets, etc. to white glazed wash hand basin and leave secure on completion.	No	6			
2	Tighten loose or replace missing bolts to hanger brackets, etc. to white glazed urinal and leave secure on completion.	No	2			
<u>White glazed vitreous china ware :</u>						
3	9 Litre cistern size 450 x 192 x 343mm high complete with lid and fitments.	No	2			
4	Rectangular washhand basin, size 560 x 405mm, with one tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts.	No	20			
5	Close coupled washdown suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flushpipe bedded to floor in 1:4 cement mortar mixture.	No	24			
6	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets .	No	6			
<u>Sanitary fitting sundries</u>						
7	Satin chrome thief proof toilet roll holder, TR2, plugged to wall.	No	31			
8	Heavy-duty double-flap hinged toilet seat and cover.	No	31			
9	150 x 150mm White glazed soap dish.	No	26			
<u>Grade 304 stainless steel ware :</u>						
10	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws.	No	3			
11	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws.	No	3			
Carried to Collection						
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<u>Taps, valves, etc.</u>			
<u>Solid cast brass taps, valves, etc.</u>			
1	15mm Brass ball-o-stop.	No	50
2	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	20
3	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	6
4	22mm Brass non-return valve.	No	3
<u>Sundries</u>			
5	Service tap, mixer, etc. including changing washers and leave in perfect working condition.	No	8
<u>Waste unions, traps, etc.</u>			
<u>Outlets, traps, etc :</u>			
6	38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay.	No	23
7	38mm Chromium plated urinal waste outlet.	No	8
8	38mm Butyl rubber flexible deepseal sink P-trap.	No	23
9	50mm Chromium plated brass basin bottle trap.	No	8
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Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<u>GLAZING</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>GLAZING</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.38mm Thick normal strength clear laminated safety glass:</u>			
1	In panes exceeding 0,1m ² and not exceeding 0,5m ² in area.	m ²	7	
	<u>Sundries</u>			
2	Rake out putty from galvanised steel window frame and replace with new.	m	76	
	<u>Glass tops, shelves, doors, mirrors, etc.</u>			
3	4mm Thick polished float glass mirror, size 450 x 600mm, four times plugged to wall with and including chromium plated dome headed screws.	No	26	
	<u>Carried Forward to Summary of Section No. 2</u>			
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Item No		Quantity	Rate	Amount
	<u>BILL No. 11</u>			
	<u>PAINTWORK</u>			
	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).			
	<u>REDECORATION OF EXISTING</u>			
	<u>PREVIOUSLY PAINTED CONCRETE, PLASTER, ETC</u>			
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats exterior acrylic emulsion sheen paint on:</u>			
1	External smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	3	
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior washable acrylic washable emulsion sheen paint on:</u>			
2	Internal plastered walls.	m2	933	
3	Internal smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	59	
	<u>PREVIOUSLY PAINTED GYPSUM PLASTERBOARD</u>			
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior acrylic emulsion sheen paint on:</u>			
4	Internal ceiling boarding.	m2	133	
	Carried to Collection			
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<u>PREVIOUSLY PAINTED FIBRE CEMENT</u>			
<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional exterior super matt paint on:</u>			
1 External cill not exceeding 300mm girth.	m	23	
<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional interior super matt paint on:</u>			
2 Internal cill not exceeding 300mm girth.	m	23	
<u>PREVIOUSLY PAINTED METALWORK</u>			
<u>Scrape down loose or peeling paint, remove all traces of rust, clean off surface contaminants with a sugar soap solution, allow to dry and apply galvanised iron primer (where necessary) and two coats super universal enamel paint on:</u>			
3 Steel door frames.	m2	60	
4 Steel windows with burglar bars (both sides measured).	m2	27	
<u>PAINT ON TIMBER</u>			
<u>Sand down varnished surface to bare timber and apply one coat exterior primer, one coat undercoat and two coats flat enamel paint on:</u>			
5 Surfaces of flush panel doors.	m2	125	
<u>PREVIOUSLY UNPAINTED CERAMIC OR STAINLESS STEEL</u>			
<u>Thoroughly wash down with approved disinfectant solution and leave clean :</u>			
6 Toilet pan and cisterns.	No	7	
7 Basins.	No	6	
8 Urinals.	No	2	
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NEW WORKS		
PAINT ON TIMBER		
<u>Prime or oil on :</u>		
Backs of frames or linings not exceeding 300mm girth.	m	51
<u>Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :</u>		
Surfaces of flush panel doors.	m2	42
Surfaces of frames and linings.	m2	13
PAINT ON METALWORK		
<u>One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :</u>		
Steel security gates (both sides measured).	m2	30
PAINT ON FIBRE-CEMENT		
<u>Prime nail heads and H-section jointing strips and apply one coat universal undercoat and two coats eggshell enamel paint on :</u>		
Internal fibre cement board ceilings including priming cover strips.	m2	35
Carried to Collection		
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Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	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).			
	<u>TEMPORARY BARRIERS, SCREENS, ETC.</u>			
	<u>TEMPORARY HOARDING</u>			
	Note: Contractor to price for the taking down and carting away hoarding on completion.			
	<u>Site clearance</u>			
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	100	
2	External barricade screen, 1800mm high overall, comprising 100-125mm diameter tanalith treated gumpoles 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	100	
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	<u>Hot dipped galvanised steel gates</u>				
1	Security fence double gate, size 3000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth.	No	1		
THE FOLLOWING IN WALKWAYS					
EARTHWORKS					
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>					
2	Reduced levels between buildings, retaining walls, etc.	m3	8		
Carting away of excavated material					
3	Extra over all excavations for loading surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	8		
BASECOURSES					
4	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	8		
<u>Sundries</u>					
5	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	50		
<u>Prescribed Testing</u>					
6	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
Carried to Collection					
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<u>Weedkillers, insecticides, etc.</u>			
<u>Soil insecticide in accordance with SANS 5859</u>			
1 Under paving, etc.	m2	50	
<u>PRECAST CONCRETE PAVERS</u>			
<u>Grey interlocking precast concrete pavers type S-A laid in herringbone pattern with header course perimeter margin</u>			
2 50mm Thick laid on and including 25mm sand bed treated with weed killer and cement/sand mixture swept into joints on completion.	m2	50	
<u>Sundries</u>			
3 Circular cutting on 50mm thick non bevelled concrete pavers.	m	5	
<u>Channelling, kerbing, edging, etc.</u>			
<u>Precast concrete kerbing</u>			
4 Precast semi-mountable concrete Fig 8B edge kerb size 300 x 175mm high cast in lengths not exceeding 1m and with expansion joints at not exceeding 10m centres finished smooth off the mould on all exposed surfaces bedded on and including minimum 50mm thick mass concrete 15 MPa base and backing including all necessary excavation, formwork, expansion joints, etc.	m	20	
5 Ditto, but circular on plan to not exceeding 4m radius.	m	5	
<u>THE FOLLOWING IN WATER SUPPLY</u>			
<u>ALTERATIONS TO EXISTING</u>			
6 Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1	
7 Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
8 Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
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<u>PIPEWORK, ETC.</u>			
<u>Pipes, pipe fittings, etc.</u>			
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>			
1	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	78
2	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	52
<u>Extra over uPVC pipes for the following fittings</u>			
3	32mm bend.	No	10
4	40mm bend.	No	5
5	32mm Tee junction.	No	4
6	40mm Tee junction.	No	3
7	32 x 40 x 32mm Reducing tee.	No	1
8	32 x 54 x 32mm Reducing tee.	No	1
9	40 x 63 x 40mm Reducing tee.	No	1
<u>Water supply valve or meter chambers</u>			
10	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	6
<u>Taps, valves, etc.</u>			
11	32mm Gate valve.	No	6
12	32mm Non return valve.	No	1
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<u>Testing</u>				
1 Allow for testing the water supply installation in accordance with the National Building Regulations.		Item		
<u>THE FOLLOWING IN SOIL DRAINAGE</u>				
Pipe depth categories and manholes, catchpits, etc. have been measured to the designed invert levels of same. The Contractor is to allow for in his rates for any additional excavation, bedding, backfilling, making up levels, etc. he deems necessary to make up any difference to actual depth.				
<u>EXISTING SERVICES</u>				
Jet or high pressure cleaning to be carried out on subsurface piping, rodding eyes, manholes, etc. to be carried out to the complete satisfaction of the Engineer.				
<u>Pipes</u>				
2 110mm Pipe fixed to walls.	m	5		
3 110mm Pipe not exceeding 1000mm deep.	m	50		
4 110mm Pipe exceeding 1000mm not exceeding 2000mm deep.	m	20		
<u>Rodding eyes</u>				
5 110mm Diameter PVC rodding eye.	No	10		
<u>Brick manholes</u>				
6 Manhole not exceeding 1000mm deep.	No	3		
7 Manhole exceeding 1000mm not exceeding 2000mm deep.	No	1		
<u>ALTERATIONS TO EXISTING</u>				
8 Cut into and stop off temporarily 110mm soil pipe for new manhole construction (elsewhere).	No	1		
9 Cut into and stop off temporarily 110mm soil pipe for insertion of Tee junction (elsewhere).	No	1		
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<u>NEW WORKS</u>				
<u>Class 34 Rigid uPVC socketed soil piping with bedding and filling in accordance with SABS 1200</u>				
1	110mm Pipe and excavation not exceeding 1000mm deep.	m	20	
2	110mm Pipe and excavation exceeding 1000mm not exceeding 2000mm deep.	m	5	
<u>Extra over uPVC pipes for fittings</u>				
3	110mm 90 Degree bend.	No	6	
4	110mm Junction.	No	1	
<u>Rodding eyes, etc.</u>				
5	PVC Rodding eye and frame and joint to top of 110mm uPVC pipe.	No	1	
<u>Sundries</u>				
6	300 x 300 x 75mm Precast concrete inspection eye marker slab set in position including excavations, carting away, ect.	No	2	
<u>MANHOLES, ETC.</u>				
7	Excavate for and build manhole size 1440 x 1440 x not exceeding 1000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	1	
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1	Excavate for and build manhole size 1440 x 1440 x exceeding 1000mm not exceeding 2000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	1		
	<u>Cast iron covers and frames</u>				
2	Type 2A cast iron manhole cover and frame size 620mm diameter bedded on top of concrete slab in cement mortar.	No	2		
	<u>Testing</u>				
3	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.	Item			
THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)					
<u>Rainwater harvesting (Labour intensive)</u>					
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>					
4	Reduced levels under solid floors.	m3	1		
5	Surface trenches.	m3	8		
<u>Excavations in earth of more difficult character</u>					
6	Extra over excavations in earth for excavation in soft rock.	m3	1		
7	Extra over excavations in earth for excavation in hard rock.	m3	0.4		
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1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	5
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	21
3	Allow for keeping the excavations free from water.	Item	
4	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	4
5	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	3
6	Scarf in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	8
7	Allow for Mod AASHTO density tests on filling.	No	2.00
8	Strip foundations cast against excavated surfaces.	m3	2
9	Surface beds cast in panels including temporary formwork.	m3	1
10	Float surface of concrete to a wood float finish.	m2	8
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<u>Rough formwork (use and waste) to concrete to:</u>			
Edge, riser, etc not exceeding 300mm high.	m	16	
<u>High tensile welded steel mesh reinforcement :</u>			
Ref: 395 cast into concrete surfaces.	m2	7	
Ref: 395 cast into concrete strip footings.	m2	14	
<u>Brickwork in stock bricks in 5:1 cement mortar :</u>			
One brick wall.	m2	7	
One brick wall in foundations. (Provisional)	m2	7	
<u>Brickwork sundries :</u>			
Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	43	
<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>			
Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	7	
Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	2	
<u>Face brick copings, lintols, cills, etc.</u>			
Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	16	
<u>Movement joints</u>			
10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	5	
Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.	m	9	
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1	High security galvanised, marine fusion bond coated, mesh fencing panel, size 2300 x 1800mm high fixed to posts (elsewhere).	No	1			
	<u>Posts</u>					
2	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	11			
3	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4			
4	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2			
	<u>Gates</u>					
5	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1			
	<u>Accessories</u>					
6	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40			
7	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1			
	<u>Sundries</u>					
8	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m ³	0.1			
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1	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	0.1			
<u>THE FOLLOWING IN ELEVATED TANKS AND GROUND STORAGE (ALL TRADES)</u>						
<u>EXCAVATIONS, FILLING, ETC.</u>						
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>						
2	Reduced levels under solid floors.	m3	11			
<u>Excavations in earth of more difficult character</u>						
3	Extra over excavations in earth for excavation in soft rock.	m3	1			
<u>Carting away of excavated material</u>						
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	12			
<u>Risk of collapse of excavations</u>						
5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	10			
<u>Keeping excavations free of water</u>						
6	Allow for keeping the excavations free from water.		Item			
<u>Foundation courses</u>						
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors.	m3	4			
8	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors.	m3	4			
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<u>Compaction of surfaces</u>			
1	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	27
<u>Tests</u>			
2	Allow for Mod AASHTO density tests on filling.	No	2.00
<u>CONCRETE (Labour intensive)</u>			
<u>Reinforced concrete 30MPa (19mm stone) in:</u>			
3	Rafter slabs cast against excavated surfaces.	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	2
<u>Surface treatment</u>			
5	Float surface of concrete to a wood float finish.	m2	27
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FORMWORK			
<u>Edges, risers, ends and reveals</u>			
1	Edge, riser, etc exceeding 300mm high.	m2	11
<u>Projections, grooves, etc.</u>			
2	Labour and material in forming 25 x 25mm chamfer to exposed top edge of concrete.	m	24
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High tensile welded steel mesh reinforcement :</u>			
3	Ref: 395 cast into concrete surfaces.	m2	27
<u>PLUMBING AND DRAINAGE</u>			
<u>ALTERATIONS TO EXISTING</u>			
4	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of reducing fitting (elsewhere).	No	2
<u>Pipes, pipe fittings, etc.</u>			
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>			
5	40mm Pipe.	m	90
6	50mm Pipe.	m	12
7	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10
<u>Extra over uPVC pipes for the following fittings</u>			
8	40mm Bend.	No	27
9	50mm Bend.	No	5
10	40mm Tee junction.	No	2
11	63 x 40mm Straight reducer	No	2
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<u>Taps, valves, etc.</u>					
1	40mm float valve kit fitted inside of tank.	No	3		
2	40mm In-line strainer.	No	2		
3	40mm Brass gate valve.	No	3		
4	40mm Brass non return valve.	No	1		
5	40mm Flanged resilient seal gate valve with cap top.	No	2		
6	40mm Flanged pressure reducing valve.	No	1		
<u>Switch</u>					
7	Float switch fitted inside of tank.	No	2		
<u>Connections</u>					
<u>Connection of new to existing pipes</u>					
8	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2		
9	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2		
10	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1		
<u>Rainwater tanks:</u>					
11	20 000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)	No	3		
12	Hole through side of tank for 40mm diameter pipe including adaptor.	No	6		
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	<u>Ties, cramps, etc.</u>			
1	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3	
2	38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	12	
	<u>Water supply valve or meter chambers</u>			
3	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	2	
	<u>Pump and Pumphouse</u>			
4	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.	Item		15,000.00
	<u>ELECTRICAL CONNECTION</u>			
	<u>Elevated Tank Electrical Works</u>			
5	Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.	Item		30,000.00
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	<u>BILL NO.1</u>			
	<u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ETC.</u>			
	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).			
	<u>PROVISIONAL SUM</u>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Provided the Provisional sum of R 60 000.00 (Sixty Thousand Rand) for the refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item		60,000.00
2	Add for profit on the above, if desired.	Item		
3	Allow for attendance on the above, if desired.	Item		
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
4	Provide the sum of R 39 000.00 (Thirty Nine Thousand Hundred Rand) for the employment of a CLO.(R 6 500.00 per month x contract period allowance)	Item		39,000.00
5	Add for profit on the above if required.	Item		
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