

Item No	Quantity	Rate	Amount
<p><u>SECTION 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>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"</p> <p><u>PRELIMINARIES</u></p> <p>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"</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>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</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			R

	<p>Brought Forward</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>1 A1.0 DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <p>"COMMENCEMENT DATE" means the date that is 5 working days after site hand over.</p> <p>Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:</p> <p>"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</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p>"CONSTRUCTION PERIOD" means the period commencing on the commencement date and ending on the date of practical completion</p> <p>Clause 1.1 Definition of "Corrupt Practice" is added:</p> <p>"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</p> <p>Clause 1.1 Definition of "Fraudulent Practice" is added:</p>		R	
	<p>Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>"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</p> <p>Clause 1.1 Definition of "Interest" is amended by replacing it with the following:</p> <p>"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:</p> <p>(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;</p> <p>and</p> <p>(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</p> <p>Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:</p> <p>"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</p> <p>Clause 1.1 Definition of "Security" is amended by replacing it with the following:</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			R	

	Brought Forward		R	
	<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><u>OBJECTIVE AND PREPARATION</u></p>			
2	<p>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</p> <p>Clause 2.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
3	<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>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward		R
4	<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	
5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 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	
6	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		

	Brought Forward		R
9	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p>		
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		

<p style="text-align: center;">Brought Forward</p> <p>10.6 Injury to Persons or loss of or damage to Properties</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(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</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>(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</p> <p>(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</p> <p>10.7 High risk insurance</p> <p>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:</p> <p>10.7.1 Damage to the works</p> <p>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</p> <p>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</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			R	

<p style="text-align: center;">Brought Forward</p> <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>	Item	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		R	

	Brought Forward		R	
11	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
12	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
13	<p>A13.0 No clause</p>	N/A		
14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 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>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

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	<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> <p>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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>EXECUTION</u></p>	Item	
15	<p>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>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</p>		
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		

	Brought Forward		R	
	<p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <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>	Item		
16	<p>A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
17	<p>A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
18	<p>A18.0 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
19	<p>A19.0 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward			R
20	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
21	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
22	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward			R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward		R	
	<u>COMPLETION</u>			
24	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____	Item		
25	A25.0 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____	Item		
26	A26.0 FINAL COMPLETION Clause 26.0 Fixed: _____ Value related: _____ Time related: _____	Item		
27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____	Item		
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
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	Brought Forward		R	
29	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
30	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<u>PAYMENT</u>			
31	<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>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

Brought Forward		R
<p>31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p>Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		R

	Brought Forward		R	
32	<p>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the contractor"</p> <p>Add the following clauses: 33.2.9 to 33.2.13:</p> <p>33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract</p> <p>33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract</p> <p>33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract</p> <p>33.2.12 the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract</p> <p>33.2.13 the contractor's estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
33	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward		R	
34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.13 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		
35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CANCELLATION</u></p>	Item		
36	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward		R
	<p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.3 Remove reference to “No clause”, and replace “principal agent” with “employer”</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
37	<p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.3.5 Replace “ninety (90)” with “one hundred and twenty (120) and 38.5.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
38	<p>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p>		
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		

	Brought Forward		R	
	<p>38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
39	<p>A39.0 CANCELLATION - CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) working days of completion of such a report"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

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

	Brought Forward		R
	<u>SECTION B: JBCC PRELIMINARIES</u>		
	<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
43	<i>B1.1 Definitions and interpretation</i> 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	
	<u>B2.0 DOCUMENTS</u>		
44	<i>B2.1 Checking of documents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
45	<i>B2.2 Provisional bills of quantities</i> Fixed: _____ Value related: _____ Time related: _____	Item	
46	<i>B2.3 Availability of construction documentation</i> Fixed: _____ Value related: _____ Time related: _____	Item	
47	<i>B2.4 Interests of agents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
48	<i>B2.5 Priced documents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		

	Brought Forward		R	
49	<p>B2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<u>B3.0 THE SITE</u>			
50	<p>B3.1 Defined works area</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
51	<p>B3.2 Geotechnical investigation</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
52	<p>B3.3 Inspection of the site</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
53	<p>B3.4 Existing premises occupied</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
54	<p>B3.5 Previous work - dimensional accuracy</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
55	<p>B3.6 Previous work - defects</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
56	<p>B3.7 Services - known</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

Brought Forward			R
57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item	
58	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item	
59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item	
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
61	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____	Item	
62	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item	
63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item	
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item	
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R	
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
66	<i>B5.1 Samples of materials</i> Fixed: _____ Value related: _____ Time related: _____	Item		
67	<i>B5.2 Workmanship samples</i> Fixed: _____ Value related: _____ Time related: _____	Item		
68	<i>B5.3 Shop drawings</i> Fixed: _____ Value related: _____ Time related: _____	Item		
69	<i>B5.4 Compliance with manufacturers' instructions</i> Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
70	<i>B6.1 Deposits and fees</i> Fixed: _____ Value related: _____ Time related: _____	Item		
71	<i>B6.2 Enclosure of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item		
72	<i>B6.3 Advertising</i> Fixed: _____ Value related: _____ Time related: _____	Item		
73	<i>B6.4 Plant, equipment, sheds and offices</i> Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

Brought Forward			R
74	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item	
75	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.0 TEMPORARY SERVICES</u>			
76	B7.1 Location Fixed: _____ Value related: _____ Time related: _____	Item	
77	B7.2 Water Fixed: _____ Value related: _____ Time related: _____	Item	
78	B7.3 Electricity Fixed: _____ Value related: _____ Time related: _____	Item	
79	B7.4 Telecommunication facilities Fixed: _____ Value related: _____ Time related: _____	Item	
80	B7.5 Ablution facilities Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B8.0 PRIME COST AMOUNTS</u>			
81	B8.1 Responsibility for prime cost amounts Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
82	<i>B9.1 General attendance</i> Fixed: _____ Value related: _____ Time related: _____	Item	
83	<i>B9.2 Special attendance</i> Fixed: _____ Value related: _____ Time related: _____	Item	
84	<i>B9.3 Commissioning - fuel, water and electricity</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B10.0 FINANCIAL ASPECTS</u>		
85	<i>B10.1 Statutory taxes, duties and levies</i> Fixed: _____ Value related: _____ Time related: _____	Item	
86	<i>B10.2 Payment for preliminaries</i> Fixed: _____ Value related: _____ Time related: _____	Item	
87	<i>B10.3 Adjustment of preliminaries</i> 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	
88	<i>B10.4 Payment certificate cash flow</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		

	Brought Forward		R
	<u>B11.0 GENERAL</u>		
89	<i>B11.1 Protection of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
90	<i>B11.2 Protection / isolation of existing / sectionally occupied works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
91	<i>B11.3 Security of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
92	<i>B11.4 Notice before covering work</i> Fixed: _____ Value related: _____ Time related: _____	Item	
93	<i>B11.5 Disturbance</i> Fixed: _____ Value related: _____ Time related: _____	Item	
94	<i>B11.6 Environmental disturbance</i> Fixed: _____ Value related: _____ Time related: _____	Item	
95	<i>B11.7 Works cleaning and clearing</i> Fixed: _____ Value related: _____ Time related: _____	Item	
96	<i>B11.8 Vermin</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		

	Brought Forward		R
97	<p>B11.9 Overhand work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
98	<p>B11.10 Instruction manuals and guarantees</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
99	<p>B11.11 As built information</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
100	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B12.0 SCHEDULE OF VARIABLES</u></p>	Item	
101	<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	
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		

	Brought Forward		R
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:			
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:			
	Carried Forward		R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

<p style="text-align: center;">Brought Forward</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>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>12.1.15 Subcontractors' notice board [6.6] <i>A notice board is required</i></p> <p style="text-align: center;">NO</p> <p style="text-align: center;">Specific requirements:</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			R	

	Brought Forward		R
12.1.16 Water [7.2] Option A (by contractor)	NO		
Option B (by employer - free of charge)	NO		
Option C (by employer - metered)	YES		
12.1.17 Electricity [7.3] Option A (by contractor)	NO		
Option B (by employer - free of charge)	NO		
Option C (by employer - metered)	YES		
12.1.18 Telecommunications [7.4] Telephone	YES		
Facsimile	YES		
E-mail	YES		
	Carried Forward		R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R
<p>12.1.19 Ablution facilities [7.5] Option A (by contractor)</p> <p style="text-align: center;">YES</p> <p>Option B (by employer)</p> <p style="text-align: center;">NO</p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required</p> <p style="text-align: center;">NO</p> <p>12.1.21 Special attendance [9.2] Subcontractor (1) details:</p> <p style="padding-left: 40px;">Subcontractor (2) details:</p> <p style="padding-left: 40px;">Subcontractor (3) details:</p> <p style="padding-left: 40px;">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> <p>12.2 POST-TENDER INFORMATION</p>			
	Carried Forward		R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R
12.2.1 Payment of preliminaries [10.2] Option A (prorated)	NO		
Option B (calculated)	YES		
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:			
	Carried Forward		R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R	
	<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p>			
102	<p>C1.0 CONTRACT DRAWINGS</p> <p>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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
103	<p>C2.0 GENERAL PREAMBLES</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>			

	Brought Forward		R	
104	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105	<p>C4.0 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>			
	Carried Forward		R	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>

<p style="text-align: center;">Brought Forward</p> <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 style="text-align: center;">Item</p> <p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>		<p style="text-align: center;">R</p>	

<p style="text-align: center;">Brought Forward</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>				R
	Item			
<p style="text-align: center;">Carried to Summary</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1</p>				R

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO.1</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p>				
	Carried Forward				R
	<p>Section No. 2 BUILDING WORKS Bill No. 1</p>				

<p style="text-align: right;">Brought Forward</p> <p><u>Existing structures</u>In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage to the structure and/or building as well as the rectification of same will be for the Contractor's account. SUPPLEMENTARY PREAMBLE Services Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, gas and oxygen supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. <u>Dust and noise</u> The Contractor is to take all necessary precautions to the satisfaction of the Representative Agent to prevent any nuisance from the dust and/or noise whilst carrying out the work. <u>Disposal of debris</u> The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work and the removal is deemed to be included in the rates unless otherwise specified.</p> <p>Explosives</p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p>General</p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p>			R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p>Alterations to the roof and roof trusses are measured with the carpentry and joinery and the roofing</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p>				R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1</p>				R	

Brought Forward				R
<p><u>Old materials to become the property of the Contractor</u> <u>Old materials from the alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.</u> <u>Old materials to be carted away</u> <u>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.</u> <u>Old materials not to be re-used</u> <u>None of the old materials are to be re-used for new work, except where specifically described as being set aside for re-use.</u> <u>Handing over of materials</u> <u>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</u></p>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Break down and remove bench consisting of brickwork and precast concrete (make good finishes elsewhere)</u>				
1	Bench: 1500 x 500mm high A : 0.0 B : 0.0 C : 0.0	No		
<u>Taking out, removing doors, windows, etc including thresholds</u>				
2	Timber single door A : 8 B : 5 C : 7	No	20	
<u>Taking down and removing ceilings including cornices, timber bandering etc</u>				
3	Ceilings, cornices etc A : 53 B : 53 C : 53	m2	158	
Carried Forward				R
<p>Section No. 2 BUILDING WORKS Bill No. 1</p>				

Brought Forward				R
<u>INSPECTING, SERVICING, REMOVING OF EXISTING TOILET SEAT COVERS</u>				
<u>Inspect existing galvanised metal roof coverings for leaks, remove loose roof screws and replace with new 100mm long screws with and including new domed roof washer with sealant attached:</u>				
4	Existing roof coverings A : 66 B : 66 C : 66	m2	197	
<u>SUNDRIES</u>				
5	Allowance cleaning and clearing before work commences on ablution block A : 0.00 B : 0.00 C : 1.00		Item	
6	Allowance for oil treatment of existing timber trusses, purlins and wall plates A : 0.00 B : 0.00 C : 1.00		Item	
7	Allowance for isolated roof leaks A : 0.00 B : 0.00 C : 1.00		Item	
8	Service and repair all pivot and locking mechanisms of existing steel windows A : 8 B : 5 C : 7	No	20	
<u>Breaking down and removing brickwork etc</u>				
9	One brick walls A : 75 B : 75 C : 60	m2	210	
<u>Take out and remove doors, etc, including thresholds, set aside for handing over to the employer and prepare frame to receive new doors in similar position (doors measured elsewhere)</u>				
10	Timber single door and frame not exceeding 2,5m ² A : 8 B : 5 C : 7	No	20	
11	Burglar bars: 1500 x 2100mm high A : 1 B : 1 C : 1	No	3	
12	Steel window frame A : 9 B : 10 C : 9	No	28	
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 1				

Brought Forward				R
<u>Take out and remove broken window panes from steel windows and prepare frame to receive new glazing in similar position (glazing measured elsewhere)</u>				
13	Window glass panes A : 5 B : 4 C : 4	m2	13	
<u>Taking out and removing ironmongery</u>				
14	Mortice lockset from timber door A : 8 B : 5 C : 7	No	20	
15	Door closer from timber door and frame A : 0 B : 0 C : 3	No	3	
16	Toilet paper holder from wall A : 8 B : 5 C : 7	No	20	
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>				
17	80mm Screed from floors A : 26 B : 26 C : 53	m2	105	
18	Internal plaster from walls and columns A : 86 B : 86 C : 172	m2	343	
<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>				
19	Tiles to floors A : 26 B : 26 C : 53	m2	105	
20	Tiles to walls A : 46 B : 46 C : 92	m2	183	
21	Tile skirtings 90mm high A : 22 B : 22 C : 44	m	87	
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 1				

Brought Forward				R
	<u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
22	UPVC piping not exceeding 110mm internal diameter A : 76 B : 85 C : 17	m	178	
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
23	Stainless steel wash hand basin A : 8 B : 5 C : 7	No	20	
24	Vitreous china WC pan with cistern and flush pipe A : 8 B : 5 C : 7	No	20	
25	Vitreous china wall hung urinal with flush valve and flush pipe A : 0 B : 5 C : 3	No	8	
	<u>MAKING GOOD OF FINISHES ETC</u>			
	<u>Making good face brickwork</u>			
26	Cleaning of the facebrick on the outside and inside A : 82 B : 82 C : 61	m2	225	
	<u>Making good paint work</u>			
27	Internal walls A : 79 B : 79 C : 59	m2	217	
	<u>Construction of a new bench comprising of brickwork, plaster, paintwork, precast concrete, etc.</u>			
28	Bench: 1500 x 500mm high A : 0.0 B : 0.0 C : 0.0	No		
	<u>SUNDRIES</u>			
29	Allowance for unblocking existing blocked sewer A : 0.00 B : 0.00 C : 1.00		Item	
30	Allowance for testing, servicing and repair all Mechanical equipment on site A : 0.00 B : 0.00 C : 1.00		Item	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO.2</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE :			
	Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>LOCATIONS</u>			
	A - Girls Ablution Blocks			
	B - Boys Ablution Blocks			
	C - Staff Ablution Blocks			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Global Roofing Solutions or equal and approved 0,6mm thick 700mm cover Klip- Titeb " profile Z275spelter ISQ550 galvanised steel roof sheeting, fixed to timber or steel intermediate purlins at 1000mm centres and eaves and ridge purlins at 600mm centres using KL700 clips fixed with 10 No.16 x 16mm long self drilling wafer head PH2 screws, No.3 drill point fasteners, all in accordance with the manufacturer's specifications. (Colour: Dark Dolphin or similar approved)</u>			
1	Roof covering with pitch not exceeding 25 degrees A : 66 B : 66 C : 66	m2	197	
2	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile. A : 29 B : 29 C : 44	m	102	
3	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile. A : 15 B : 15 C : 35	m	65	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 2			

Brought Forward				R
4	Counter flashing 185mm girth, two times bent along girth. A : 15 B : 15 C : 29	m	59	
<u>ROOF AND WALL INSULATION</u>				
<u>Sisalation 420' or similar approved heavy industrial grade reinforced aluminium foil and polyethylene insulation</u>				
5	Insulation laid taut over purlins (at maximum 760mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires A : 58 B : 58 C : 26	m2	142	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 2				

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO.3</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>ROOFS ETC</u></p> <p>Plate nailed timber roof truss construction</p> <p>The following is applicable in respect of roof trusses:</p> <p>Trusses are at maximum 760mm centres</p> <p>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the Employer's Agent and/or the site before design or fabrication commences</p>			
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 3</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>DESCRIPTIONS</u></p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p><u>PREFABRICATED ROOFS, ETC.</u></p> <p>a) The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SABS 0243. It shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent .</p> <p>b) Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.</p> <p>c) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary and permanent bracing.</p> <p>Prefabricated plate nailed timber roof truss construction</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 3</p>			R	

Brought Forward				R
<u>Sawn softwood trusses</u>				
1	Roof construction to pitched roof with 10 degree pitch approximately 13100 x 7100mm on plan sloping with 1000mm eaves overhang one end, including wall plates, trusses, jack rafters, hip rafters, permanent bracing and purlins. Exposed rafters to be treated with approved creosote wood treatment A : 63 B : 63 C : 53	m2	179	
<u>DOORS, ETC.</u>				
<u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u>				
2	44mm "TDM" Framed and ledged door 813 x 2032mm high A : 8 B : 5 C : 7	No	20	
<u>Semi Solid doors with "Masonite" 3mm standard hardboard covering on both sides suitable for painting hung to steel frames</u>				
3	40mm x 813 x 2032mm Standard meranti door A : 8 B : 5 C : 7	No	20	
<u>EAVES, VERGES, ETC</u>				
<u>Pressed-fibre cement</u>				
4	Fascias and barge boards A : 29 B : 29 C : 44	m	102	
Carried Forward to Summary of Section No. 2				
Section No. 2 BUILDING WORKS Bill No. 3				
				R

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Proprietary items or materials Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Employer's Agent</p> <p>Descriptions Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete at not exceeding 600 mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p> <p><u>CEILINGS</u></p> <p><u>"Aerolite" insulation</u></p>			
1	<p>75mm Insulation closely fitted and laid on top of brandering between roof timbers etc</p> <p style="text-align: center;">A : 53 B : 53 C : 53</p>	m2	158	
	<p><u>NAILED UP AND SCREW UP CEILINGS</u></p>			
	Carried Forward			R
	<p>Section No. 2 BUILDING WORKS Bill No. 4</p>			

Brought Forward				R
<p><u>4mm "Everite Nutec" plain boards screw fixed with white metal H-profile jointing strips over joints, 600mm centres with cross branding at joints, ends of sheets and at light fittings, etc</u></p>				
2	Ceilings including 38 x 50mm sawn softwood branding A : 53 B : 53 C : 53	m2	158	
<p><u>Gypsum plasterboard cornices</u></p>				
3	75mm coved cornice fixed to walls A : 85 B : 85 C : 80	m	251	
<p><u>Trap door</u></p>				
4	Extra over ceiling for 600 x 600mm trap door comprising A : 3 B : 3 C : 0	No	6	
<p>Carried Forward to Summary of Section No. 2</p>				R
Section No. 2 BUILDING WORKS Bill No. 4				

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 5</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371			
	<u>LOCATIONS</u>			
	A - Girls Ablution Blocks			
	B - Boys Ablution Blocks			
	C - Staff Ablution Blocks			
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberly Clark" or similar approved</u>			
1	Standard vandalproof toilet roll holder A : 8 B : 5 C : 7	No	20	
	<u>LOCKS</u>			
	<u>"Union"</u>			
2	"682-24-52 SC" three lever lockset A : 8 B : 5 C : 7	No	20	
3	Padlock, 50mm Viro with two keys A : 1 B : 1 C : 0	No	2	
	<u>PUSH PLATES AND KICKING PLATES</u>			
	<u>"Dorma"</u>			
4	"dkp-ss-161" Stainless steel kick plate size 813 x 300mm high fixed to timber A : 8 B : 5 C : 7	No	20	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 5			

	Brought Forward			R
	<u>"Union"</u>			
5	"AL5066-06ASE08" 152 x 152mm anodised aluminium plate with directional pictogram A : 6 B : 6 C : 0	No	12	
	<u>SUNDRIES</u>			
6	30mm Diameter rubber door stop plugged & screwed to floor A : 8 B : 5 C : 7	No	20	
	<u>"Kimberley-Clark"or Similar</u>			
7	Stainless steel female she-bin plugged to wall A : 2 B : 0 C : 0	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 BUILDING WORKS Bill No. 5			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO.6</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p> <p><u>MILD STEEL DOOR FRAMES</u></p> <p><u>1.6mm thick mild steel double rebated frame for 220mm wall</u></p> <p>1 Frame for door, size 813 x 2032mm high A : 8 B : 5 C : 7 No 20</p> <p>2 Frame for door 900 x 2032mm high A : 2 B : 2 C : 0 No 4</p> <p><u>GALVANISED STEEL WINDOWS, DOORS, ETC</u></p>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 6			

Brought Forward			R
<u>Steel gates and frames</u>			
3	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High A : 2 B : 2 C : 0	No	4
<u>Standard residential all bar type steel windows with burglar bars to fixed and opening sections</u>			
4	Window size 300 x 600mm A : 9 B : 10 C : 9	No	28
5	Window type size 1500 x 600mm A : 3 B : 3 C : 0	No	6
<u>Gate frame to consist of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded and secured against wall with 50 x 50 x 5mm with brackets welded to frame and bolted to wall with 10mm (m10) raw bolts</u>			
6	Door burglar bars for door size 1500 x 2100mm high complete with lock A : 2 B : 2 C : 0	No	4
<u>Protective SHE-BIN cages (female toilets only)</u>			
7	Allow the Provisional Amount of R12 800.00 (Twelve Thousand Eight Hundred Rand) for supply and installation of protective steel cage to female she-bins A : 0.00 B : 0.00 C : 1.00	Item	12,800.00
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 6			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 7</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>LOCATIONS</u>			
	A - Girls Ablution Blocks			
	B - Boys Ablution Blocks			
	C - Staff Ablution Blocks			
	<u>SCREEDS</u>			
	<u>3:1 Cement screeds wood floated on concrete</u>			
1	25mm Thick on floors A : 53 B : 53 C : 53	m2	158	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
2	On walls A : 92 B : 92 C : 89	m2	272	
3	On narrow widths A : 41 B : 41 C : 76	m	158	
	<u>RHINOLITE</u>			
	<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete</u>			
4	On Ceilings A : 53 B : 53 C : 53	m2	158	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 BUILDING WORKS Bill No. 7			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 8</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p> <p><u>WALL TILING</u></p> <p><u>150 x 150 x 8mm "Johnson Matisse Code AS 002" or other approved Gloss white tiles fixed with adhesive to plaster (plaster elsewhere)and flush pointed with TAL light grey Epoxy grouting</u></p>			
1	<p>On walls</p> <p style="padding-left: 40px;">A : 116 B : 116 C : 101</p>	m2	334	
	<p><u>FLOOR TILING</u></p> <p><u>300 x 300mm Ceramic tiles fixed with an approved adhesive on prepared screeded floors with 3mm wide joints and flush pointed with tinted jointing compound and sealed with approved sealer</u></p>			
2	<p>On floors and landings</p> <p style="padding-left: 40px;">A : 53 B : 53 C : 55</p>	m2	160	
3	<p>On skirtings not exceeding 150mm high</p> <p style="padding-left: 40px;">A : 55 B : 55 C : 0</p>	m	111	
	<p>Carried Forward to Summary of Section No. 2</p>			R
	<p>Section No. 2 BUILDING WORKS Bill No. 8</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p>			
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 9</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Exposed concrete surfaces</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>Soft rock and "hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 9</p>			R	

	Brought Forward			R
	<p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>Mr Gutter Ogee or similar approved pre-coated similar seamless gutter</u></p>			
1	<p>100 x 100 x 0.6mm thick chromodek steel gutter including matching rivet fixed mitres and end caps (measured elsewhere) internally sealed using silicon mastic, hung by nail fixed to internal pre-painted hangers at 800mm centres and laid to fall to outlets.</p> <p style="padding-left: 40px;">A : 29 B : 29 C : 44</p>	m	102	
2	<p>100 x 76 x 0.5mm thick chromodek fixed to walls with pre-painted downpipes cleats using nail-in anchor fixings</p> <p style="padding-left: 40px;">A : 29 B : 29 C : 45</p>	m	103	
3	<p>Extra over 125 x 100mm eaves gutter for outlet for 75 x 50mm pipe</p> <p style="padding-left: 40px;">A : 15 B : 15 C : 30</p>	No	60	
4	<p>Extra over 75 x 100mm down pipe for eaves or plinth offset 750mm projection</p> <p style="padding-left: 40px;">A : 4 B : 4 C : 8</p>	No	16	
	Carried Forward			R
	<p>Section No. 2 BUILDING WORKS Bill No. 9</p>			

Brought Forward			R
5	Extra over 75 x 100mm down pipe for shoe A : 4 B : 4 C : 8	No	16
<u>SUBSOIL DRAINAGE</u>			
<u>uPVC Pipes underground</u>			
6	110mm pipes laid in and including trenches not exceeding 1m deep A : 42 B : 37 C : 22	m	101
<u>SANITARY PLUMBING (SOIL AND WASTE)</u>			
<u>uPVC Pipes</u>			
7	110mm Diameter pipes A : 14 B : 14 C : 6	m	34
8	50mm Diameter pipes A : 14 B : 14 C : 6	m	34
<u>Extra over for uPVC for fittings</u>			
9	50mm Inspection eye junction A : 10 B : 10 C : 4	No	24
10	50mm - pipe fitting A : 10 B : 10 C : 4	No	24
11	50mm GI two way vent valve A : 10 B : 10 C : 4	No	24
12	110mm-50mm concentric/eccentric reducers A : 10 B : 10 C : 4	No	24
13	110mm bends fitting 45/90° A : 10 B : 10 C : 4	No	24
14	110mm Pan connector A : 10 B : 10 C : 4	No	24
<u>SANITARY FITTINGS</u>			
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 9			

	Brought Forward			R
	<u>Vaal or other approved</u>			
15	Code 750200 Vaal "Protea" or similar low level WC suite comprising vitreous china washdown pan (Code 750100) and matching 9 litre cistern (Code 710533) complete with lid and fitments, and purpose made CP side-flush lever mounted to wall. A : 8 B : 5 C : 7	No	20	
16	Springbok white glazed porcelian WHB A : 8 B : 5 C : 7	No	20	
17	TU102 Flat Back Wall Mounted Trough Urinal Right-hand Outlet 1830x780x300mm as supplied or equal approved A : 0 B : 1 C : 0	No	1	
18	Vitreous china wallmounted "flatback" urinal (code 7053) supplied with 38mm c.p. domical grating (code 8787),c.p. spreader (code 8543) and two hanger brackets (code 8127), with "cobra watertech flushmaster junior" urinal flush valve (fj6.000) A : 0 B : 5 C : 0	No	5	
	<u>WASTE UNIONS ETC</u>			
	<u>Cobra Watertech or other approved</u>			
19	38mm basin or sink waste union A : 8 B : 5 C : 7	No	20	
	<u>TRAPS ETC</u>			
	<u>Cobra Watertech or other approved</u>			
20	40mm 'Flexitrap' flexible rubber reseal 'S' or 'P' trap with clips complete A : 8 B : 5 C : 7	No	20	
	<u>TAPS, VALVES, ETC</u>			
	<u>Cobra Watertech or other approved</u>			
21	Cobra no 401 CP Basin set with 31mm chromium plated whb outlet A : 8 B : 5 C : 7	No	20	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 9			

Brought Forward				R
22	22mm Code FJ6.000 "Flushmaster Junior" urinal flushvalve complete with connector, spray rose (Code FJT 5.4) and wallplate. A : 0 B : 5 C : 7	No	12	
<u>SANITARY PLUMBING</u>				
<u>Sundries</u>				
23	Testing waste pipe system A : 0.00 B : 0.00 C : 1.00		Item	
<u>WATER SUPPLIES</u>				
<u>Galvanised steel pipes</u>				
24	25mm Pipes chased into brick walls A : 28 B : 28 C : 12	m	68	
25	15mm Pipes chased into wall A : 25 B : 25 C : 14	m	64	
<u>Extra over galvanised steel pipes for steel fittings</u>				
26	25mm Fittings A : 4 B : 4 C : 4	No	12	
<u>Class "O" copper pipes, chase into walls and make good for wall to receive paint</u>				
27	15mm Pipes A : 0 B : 25 C : 4	m	29	
28	15mm Fittings A : 20 B : 20 C : 6	No	46	
<u>Extra over class "O" copper pipes for capillary fittings</u>				
29	15mm Fittings A : 15 B : 15 C : 6	No	36	
<u>Sundries</u>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 9				

	Brought Forward		R	
	<u>BUDGETARY ALLOWANCES</u>			
30	Allow the Budgetary Allowance of R 5 000.00 for builders work in connection with the commissioning and servicing of decommissioned water supply services to be expanded in part or whole as directed by Principal Agent A : 0.00 B : 0.00 C : 1.00	Item		5,000.00
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 9			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>GLAZING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>MIRRORS</u></p> <p>NOTE :</p> <p>Mirrors shall be of 6mm thick silvered GG quality polished float glass with rounded and polished edges and splayed corners.</p> <p>Unless otherwise described, mirrors shall have four holes for and be screwed to and including approved patent plugs in plastered or tiled wall with countersunk steel screws tap-threaded for and including screw type chromium plated dome-headed caps and felt washers.</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p>			
1	<p>800 x 600mm mirror with polished edges fixed to wall or over tiles with silicone and double sided tape, with silicone bead all around to seal gap between mirror and wall/tiles</p> <p style="text-align: center;">A : 4 B : 4 C : 0</p>	No		8
	<p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>4 mm Rough cast glass</u></p>			
2	<p>Panes exceeding 0,5m2 and not exceeding 2m2</p> <p style="text-align: center;">A : 11 B : 11 C : 0</p>	m2		22
	Carried Forward			R
	<p>Section No. 2 BUILDING WORKS Bill No. 10</p>			

	Brought Forward		R	
	<u>SUNDRY ITEMS</u>			
3	Allow the some of R5 000.00 to assess, service and replace (where necessary) window stays to all windows to be used in part or in whole as directed by the Principal Agent.	Item		5,000.00
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 10			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></p> <p>For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><u>LOCATIONS</u></p> <p>A - Girls Ablution Blocks</p> <p>B - Boys Ablution Blocks</p> <p>C - Staff Ablution Blocks</p> <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK ON FLOATED</u></p>			
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 11</p>			

Brought Forward			R
<u>One coat universal undercoat and three coats super acrylic PVA paint</u>			
1	On internal walls A : 195 B : 195 C : 343	m2	732
<u>ON METAL</u>			
<u>Wash down with sugar soap, rinse with clean water to remove all traces of soap, remove all traces of rust, loose and flaking paint. Spot prime bare metal areas with synthetic metal primer coat, apply one coat universal undercoat and apply two coats polyurethane enamel paint</u>			
2	On window frames A : 31 B : 32 C : 0	m2	63
3	On door burglar bars A : 16 B : 16 C : 0	m2	33
4	On door frames A : 24 B : 20 C : 0	m2	45
<u>ON CONCRETE</u>			
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>			
5	On sills A : 8 B : 8 C : 0	m2	16
<u>ON FIBRE-CEMENT , ETC</u>			
<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
6	On ceilings and cornices A : 53 B : 53 C : 55	m2	160
7	On Fascia boards A : 29 B : 29 C : 45	m	103
8	On 125 x 100mm galvanised mild steel gutters A : 15 B : 15 C : 29	m	59
9	On 100 x 100mm galvanised mild steel down pipes A : 11 B : 11 C : 0	m	23
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 11			

Brought Forward					
<u>ON WOOD</u>					
<u>Prepare, stop and apply three coats "Plascon" clear oil based wood sealer</u>					
10	On doors	m2	97		
	A : 0 B : 48 C : 48				
<u>Prepare and apply two coats of carbolineum</u>					
11	On exposed roof timbers	m2	65		
	A : 32 B : 32 C : 0				
Carried Forward to Summary of Section No. 2					
Section No. 2					
BUILDING WORKS					
Bill No. 11					

	Section No. 2			
Bill No		Page No	Amount	
	BUILDING WORKS			
	<u>SECTION SUMMARY - BUILDING WORKS</u>			
1	REFURBISHMENTS	46		
2	ROOF COVERINGS	48		
3	CARPENTRY AND JOINERY	51		
4	CEILINGS, PARTITIONS AND ACCESS FLOORING	53		
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6	METALWORK	57		
7	PLASTERING	58		
8	TILING	59		
9	PLUMBING AND DRAINAGE	66		
10	GLAZING	68		
11	PAINTWORK	71		
	Carried to Summary		R	
	Section No. 2			
	BUILDING WORKS			

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 3</u>				
	<u>BILL NO. 1</u>				
	<u>EXTERNAL WORKS (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>TEMPORARY BARRIERS, SCREENS, ECT.</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	200		
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	200		
	Carried Forward				R
	Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
	<u>Hot dipped galvanised steel gates</u>			
3	Security fence double gate, size 3000mm wide x 1800mm high, formed of 80 x 40 x 4mm wall thickness rectangular section framing all round with mitred and welded angles and diagonal cross brace, the gate covered with mesh security fencing secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to and including six rows of straining wires and yellow/orange barrier shade cloth.	No	1	
<u>THE FOLLOWING IN WALKWAYS</u>				
<u>EARTHWORKS</u>				
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
4	Reduced levels between buildings, retaining walls, etc.	m3	144	
<u>Carting away of excavated material</u>				
5	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	144	
<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	128	
<u>Sundries</u>				
7	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	440	
<u>Prescribed Testing</u>				
8	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	12	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward	
<p>Section No. 3 EXTERNAL WORKS Bill No. 1</p>	Carried Forward	R

	Brought Forward			R
	<u>Weedkillers, insecticides, etc.</u>			
	<u>Soil insecticide in accordance with SANS 5859</u>			
9	Under paving, etc.	m2	280	
	<u>PRECAST CONCRETE PAVERS</u>			
	<u>Grey interlocking precast concrete pavers type S-A laid in herringbone pattern with header course perimeter margin</u>			
10	50mm Thick laid on and including 25mm sand bed treated with weed killer and cement/sand mixture swept into joints on completion.	m2	280	
	<u>Sundries</u>			
11	Circular cutting on 50mm thick non bevelled concrete pavers.	m	30	
	<u>Channelling, kerbing, edging, etc.</u>			
	<u>Precast concrete kerbing</u>			
12	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	100	
13	Ditto, but circular on plan to not exceeding 4m radius.	m	30	
	<u>THE FOLLOWING IN WATER SUPPLY</u>			
	<u>ALTERATIONS TO EXISTING</u>			
14	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1	
15	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
16	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1	
<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>				
17	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	180	
18	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	120	
<u>Extra over uPVC pipes for the following fittings</u>				
19	32mm bend.	No	24	
20	40mm bend.	No	12	
21	32mm Tee junction.	No	9	
22	40mm Tee junction.	No	6	
23	32 x 40 x 32mm Reducing tee.	No	1	
24	32 x 54 x 32mm Reducing tee.	No	1	
25	40 x 63 x 40mm Reducing tee.	No	1	
<u>Water supply valve or meter chambers</u>				
26	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	3	
<u>Taps, valves, etc.</u>				
27	32mm Gate valve.	No	3	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
28	32mm Non return valve.	No	1	
	<u>Testing</u>			
29	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>			
30	110mm Pipe fixed to walls.	m	8	
31	110mm Pipe not exceeding 1000mm deep.	m	75	
32	110mm Pipe exceeding 1000mm not exceeding 2000mm deep.	m	30	
	<u>Rodding eyes</u>			
33	110mm Diameter PVC rodding eye.	No	15	
	<u>Brick manholes</u>			
34	Manhole not exceeding 1000mm deep.	No	4	
35	Manhole exceeding 1000mm not exceeding 2000mm deep.	No	2	
	<u>ALTERATIONS TO EXISTING</u>			
36	Cut into and stop off temporarily 110mm soil pipe for new manhole construction (elsewhere).	No	1	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
37	Cut into and stop off temporarily 110mm soil pipe for insertion of Tee junction (elsewhere).	No	1	
<u>NEW WORKS</u>				
<u>Class 34 Rigid uPVC socketed soil piping with bedding and filling in accordance with SABS 1200</u>				
38	110mm Pipe and excavation not exceeding 1000mm deep.	m	30	
39	110mm Pipe and excavation exceeding 1000mm not exceeding 2000mm deep.	m	8	
<u>Extra over uPVC pipes for fittings</u>				
40	110mm 90 Degree bend.	No	9	
41	110mm Junction.	No	2	
<u>Rodding eyes, etc.</u>				
42	PVC Rodding eye and frame and joint to top of 110mm uPVC pipe.	No	2	
<u>Sundries</u>				
43	300 x 300 x 75mm Precast concrete inspection eye marker slab set in position including excavations, carting away, ect.	No	3	
<u>MANHOLES, ETC.</u>				
44	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	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
45	Excavate for and build manhole size 1440 x 1440 x exceeding 1000mm not exceeding 2000mm deep internally, formed of 150mm thick reinforced concrete (25MPa) bottom projecting 150mm all round with welded mesh Ref. 245 both top and bottom, one brick sides, 150mm high precast reinforced concrete (25MPa) cover slab and lid with welded mesh Ref. 245 both top and bottom laid loose on top of brickwork, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	2	
	<u>Cast iron covers and frames</u>			
46	Type 2A cast iron manhole cover and frame size 620mm diameter bedded on top of concrete slab in cement mortar.	No	3	
	<u>Testing</u>			
47	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations.		Item	
	<u>THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u>			
	<u>Rainwater harvesting (Labour intensive)</u>			
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
48	Reduced levels under solid floors.	m3	2	
49	Surface trenches.	m3	15	
	<u>Excavations in earth of more difficult character</u>			
50	Extra over excavations in earth for excavation in soft rock.	m3	2	
51	Extra over excavations in earth for excavation in hard rock.	m3	1	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
<u>Carting away of excavated material</u>				
52	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	9	
<u>Risk of collapse of excavations</u>				
53	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	43	
<u>Keeping excavations free of water</u>				
54	Allow for keeping the excavations free from water.		Item	
<u>Filling, layerworks, etc.</u>				
55	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	7	
56	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	7	
<u>Compaction of surfaces</u>				
57	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density.	m2	16	
<u>Tests</u>				
58	Allow for Mod AASHTO density tests on filling.	No	4.00	
<u>Reinforced concrete 25MPa in:</u>				
59	Strip foundations cast against excavated surfaces.	m3	5	
60	Surface beds cast in panels including temporary formwork.	m3	2	
<u>Sundries</u>				
61	Float surface of concrete to a wood float finish.	m2	16	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
	<u>Rough formwork (use and waste) to concrete to:</u>			
62	Edge, riser, etc not exceeding 300mm high.	m	32	
	<u>High tensile welded steel mesh reinforcement :</u>			
63	Ref: 395 cast into concrete surfaces.	m2	14	
64	Ref: 395 cast into concrete strip footings.	m2	29	
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>			
65	One brick wall.	m2	15	
66	One brick wall in foundations. (Provisional)	m2	15	
	<u>Brickwork sundries :</u>			
67	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	86	
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>			
68	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	15	
69	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	5	
	<u>Face brick copings, lintols, cills, etc.</u>			
70	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	32	
	<u>Movement joints</u>			
71	10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	10	
72	Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.	m	18	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
	<u>Ties, cramps, etc.</u>			
73	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut.	No	4	
74	38 x 1,6mm Galvanised hoop iron tie down, 1200mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	16	
	<u>250 Micron "Gunplas USB" green polyethylene sheeting</u>			
	⋮			
75	Laid flat under solid floor and over walls.	m2	14	
	<u>Rainwater tanks:</u>			
76	5000 Litre polyethylene rotomoulded vertical water storage tank 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	2	
77	Hole through top of tank lid for 100mm diameter pipe.	No	4	
	<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>			
78	Reduced levels under solid floors.	m3	11	
	<u>Excavations in earth of more difficult character</u>			
79	Extra over excavations in earth for excavation in soft rock.	m3	1	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
<u>Carting away of excavated material</u>				
80	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>				
81	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>				
82	Allow for keeping the excavations free from water.		Item	
<u>Foundation courses</u>				
83	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	
84	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	
<u>Compaction of surfaces</u>				
85	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	27	
<u>Tests</u>				
86	Allow for Mod AASHTO density tests on filling.	No	2.00	
<u>CONCRETE (Labour intensive)</u>				
<u>Reinforced concrete 30MPa (19mm stone) in:</u>				
87	Rafter slabs cast against excavated surfaces.	m3	8	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward				R
	<u>Testing</u>				
88	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>				
89	Float surface of concrete to a wood float finish.	m2	27		
	Carried Forward				R
	Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
<u>FORMWORK</u>				
<u>Edges, risers, ends and reveals</u>				
90	Edge, riser, etc exceeding 300mm high.	m2	11	
<u>Projections, grooves, etc.</u>				
91	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>				
92	Ref: 395 cast into concrete surfaces.	m2	27	
<u>PLUMBING AND DRAINAGE</u>				
<u>ALTERATIONS TO EXISTING</u>				
93	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>				
94	40mm Pipe.	m	90	
95	50mm Pipe.	m	12	
96	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10	
<u>Extra over uPVC pipes for the following fittings</u>				
97	40mm Bend.	No	27	
98	50mm Bend.	No	5	
99	40mm Tee junction.	No	2	
100	63 x 40mm Straight reducer	No	2	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
<u>Taps, valves, etc.</u>				
101	40mm float valve kit fitted inside of tank.	No	3	
102	40mm In-line strainer.	No	2	
103	40mm Brass gate valve.	No	3	
104	40mm Brass non return valve.	No	1	
105	40mm Flanged resilient seal gate valve with cap top.	No	2	
106	40mm Flanged pressure reducing valve.	No	1	
<u>Switch</u>				
107	Float switch fitted inside of tank.	No	2	
<u>Connections</u>				
<u>Connection of new to existing pipes</u>				
108	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2	
109	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2	
110	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1	
<u>Rainwater tanks:</u>				
111	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	2	
112	Hole through side of tank for 40mm diameter pipe including adaptor.	No	4	
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1				

		Brought Forward			R
	<u>Ties, cramps, etc.</u>				
113	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		
114	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>				
115	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>				
116	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>				
117	Allow the Budgetary Allowance of R 70 000,00 (Seventy Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item		70,000.00
	<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>				
	<u>Portable toilets</u>				
118	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	5		
119	Servicing and maintain the five portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	20		
	Carried Forward				R
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward			R	
120	Removal of the portable chemical toilet on completion of the contract.	No	5		
	<u>BOREHOLE INSTALLATION</u>				
121	Provisional Sum of R300,000.00 (Three Hundred Thousand Rand) for the drilling of the borehole , to be carried out by a specialist contractor.		Item		300,000.00
122	Allow for Profit.		Item		
123	Allow for Attendance.		Item		
	Carried to Summary			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	PRELIMINARIES AND GENERAL	38		
2	BUILDING WORKS	72		
3	EXTERNAL WORKS	89		
	SUB TOTAL (A)		R	
	Allow the sum as indicated for Contingencies for 10%		R	
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
	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
	Add for profit on the above if required.	Item		
	SUB TOTAL (B)		R	
	Add VAlue Added Tax @ 15%		R	
	Carried to Final Form of Tender		R	