



education

Department:  
Education  
PROVINCE OF KWAZULU-NATAL

Bill of Quantities  
**Macambini Primary School**



## **ASBESTOS REMOVAL PROGRAMME**

Implemented By  
**DEVELOPMENT BANK SOUTHERN AFRICA**

**UNPRICED BILL OF QUANTITIES  
MACAMBINI PRIMARY SCHOOL**

**EMIS NO.: 500190439**

# **SECTION NO. 1**

# **PRELIMINARIES**

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**SECTION NO. 1****PRELIMINARIES****BUILDING AGREEMENT AND PRELIMINARIES**

The JBCC Series 2000 Principal Building Agreement (Edition 4.1 Code 2101 March 2005) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described

The ASQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities

Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof

No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.

The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any item left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal

Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"

**PRICING OF PRELIMINARIES**

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

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**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT****A1.0 DEFINITIONS AND INTERPRETATION**

- 1 Clause 1.0 Clause 1.1 Definition of 'Commencement Date' is added: 'COMMENCEMENT DATE' means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect Clause 1.1 Definition of 'Construction Guarantee' is amended by replacing it with the following: 'CONSTRUCTION GUARANTEE' means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule Clause 1.1 Definition of 'Construction Period' is amended by replacing it with the following: 'CONSTRUCTION PERIOD' means the period commencing on the commencement date and ending on the date of practical completion Clause 1.1 Definition of 'Corrupt Practice' is added: 'CORRUPT

PRACTICE' means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. Clause 1.1 Definition of 'Fraudulent Practice' is added: 'FRAUDULENT PRACTICE' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition. Clause 1.1 Definition of 'Interest' is amended by replacing it with the following: 'INTEREST' means the interest rates applicable on this contract, whether specifically indicated in the

relevant clauses or not, will be the 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) Clause 1.1 Definition of 'Principal Agent' is amended by replacing it with the following: 'PRINCIPAL AGENT' means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule Clause 1.1 Definition of 'Security' is amended by replacing it with the following: 'SECURITY' means the

form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss Clause 1.6 is amended by replacing the words 'prepaid registered post, telefax or e-mail' with 'prepaid registered post or telefax' Clause 1.6.4 is amended by replacing it with the following: No clause

**OBJECTIVE AND PREPARATION****A2.0 OFFER, ACCEPTANCE AND PERFORMANCE**

- 2 Clause 2.0

**A3.0 DOCUMENTS**

- 3 Clause 3.0

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4	Clause 3.2.1 is amended by replacing '14.1' with '14.0' Clause 3.7 is amended by the addition of the following:  The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.  Clause 3.10 is amended by replacing the second reference to 'principal agent' with the word 'employer'	Item
	<b><u>A4.0 DESIGN RESPONSIBILITY</u></b>	
4	Clause 4.0.	Item
	<b><u>A5.0 EMPLOYER'S AGENTS</u></b>	
5	Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8	Item
	<b><u>A6.0 SITE REPRESENTATIVE</u></b>	
6	Clause 6.0	Item
	<b><u>A7.0 COMPLIANCE WITH REGULATIONS</u></b>	
7	Clause 7.0 Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.	Item
	<b><u>A8.0 WORKS RISK</u></b>	
8	Clause 8.0	Item
	<b><u>A9.0 INDEMNITIES</u></b>	
9	Clause 9	Item
	<b><u>A10.0 WORKS INSURANCES</u></b>	
10	Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or	
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destruction of the works and to rebuild, restore, replace and/or repair the works (c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof 10.6 Injury to Persons or loss of or damage to Properties (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable (b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable (c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor (d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed (f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works 10.7 High risk insurance In the event of the project being executed in a geological area classified as a 'High Risk Area', that is an area which is

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11	<p>subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply: 10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or</p> <p>destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs 10.7.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract 10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any</p> <p>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><b><u>A11.0 LIABILITY INSURANCES</u></b></p>	Item
	Clause 11.0	Item
	<b><u>A12.0 EFFECTING INSURANCES</u></b>	
12	Clause 12.0	Item
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**A13.0****A13.0 No clause****A14.0 SECURITY**

- 13 Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following:
- 14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)
- 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)
- 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor
- 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.
- 14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:
- 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date
- 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor
- 14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor
- 14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor
- 14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit 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 cash deposit security or portions thereof to the contractor
- 14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party
- 14.4 Where security as a variable construction guarantee of ten per cent (10%) of the contract sum (excluding VAT) has been selected:
- 14.4.1 The contractor shall

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furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date 14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender 14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring 14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee 14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent

(5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected: 14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT) 14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion 14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring 14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8 (A) and 34.8 14.5.5 Where the employer has a right of

recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both 14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected: 14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date 14.6.2 Within twenty-one (21) calendar days of the date of practical

completion of the works the employer shall refund the cash deposit in total to the contractor 14.6.3 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both 14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected: 14.7.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B)

14.7.2 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 or portions thereof to the contractor 14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not

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	prejudice the rights of the employer or contractor in terms of this agreement 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	Item
	<b><u>EXECUTION</u></b>	
	<b><u>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</u></b>	
14	Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0 Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4	Item
	<b><u>A16.0 ACCESS TO THE WORKS</u></b>	
15	Clause 16.0	Item
	<b><u>A17.0 CONTRACT INSTRUCTIONS</u></b>	
16	Clause 17.0	Item
	<b><u>A18.0 SETTING OUT OF THE WORKS</u></b>	
17	Clause 18.0	Item
	<b><u>A19.0 ASSIGNMENT</u></b>	
18	Clause 19.0	Item
	<b><u>A20.0 NOMINATED SUBCONTRACTORS</u></b>	
19	Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums	Item
	<b><u>A21.0 SELECTED SUBCONTRACTORS</u></b>	
20	Clause 21.0	Item
	<b><u>A22.0 EMPLOYER'S DIRECT CONTRACTORS</u></b>	
21	Clause 22.0	Item
	<b><u>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u></b>	
22	Clause 23.0	Item
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<b><u>COMPLETION</u></b>		
<b><u>A24.0 PRACTICAL COMPLETION</u></b>		
23	Clause 24.0	Item
<b><u>A25.0 WORKS COMPLETION</u></b>		
24	Clause 25.0	Item
<b><u>A26.0 FINAL COMPLETION</u></b>		
25	Clause 26.0 Clause 26.1.2 is amended by inserting '#' next to 26.1.2	Item
<b><u>A27.0 LATENT DEFECTS LIABILITY PERIOD</u></b>		
26	Clause 27.0	Item
<b><u>A28.0 SECTIONAL COMPLETION</u></b>		
27	Clause 28.0	Item
<b><u>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</u></b>		
28	Clause 29.0	Item
<b><u>A30.0 PENALTY FOR NON-COMPLETION</u></b>		
29	Clause 30.0	Item
<b><u>PAYMENT</u></b>		
<b><u>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</u></b>		
30	<p>Clause 31.0 Clause 31.5.2 is amended by replacing '14.7.1 with '14.0'</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion 31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of</p> <p>final completion 31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (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 Alternative B 31.8(B) Where security as a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments 31.8(B).1 Ninety per cent (90%) of such value in interim payment</p>	
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	<p>certificates issued up to the date of practical completion 31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(B).4 One hundred per cent (100%) of such</p> <p>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 Clause 31.12 is amended by deleting the following: Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p>	
	<b><u>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</u></b>	
31	Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: 'due to no fault of the contractor'	Item
	<b><u>A33.0 RECOVERY OF EXPENSE AND LOSS</u></b>	
32	Clause 33.0	Item
	<b><u>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</u></b>	
33	Clause 34.0	Item
	<b><u>A35.0 PAYMENT TO OTHER PARTIES</u></b>	
34	Clause 35.0	Item
	<b><u>CANCELLATION</u></b>	
	<b><u>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u></b>	
35	<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 judgment 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> <p>Clause 36.0 is amended by the addition of the following clause: 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>	Item
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<b><u>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u></b>		
36	<p>Clause 37.0</p> <p>Clause 37.0 is ammended by the addition of the following clause:35.5</p> <p>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 ground of any other right whatsoever</p>	Item
<b><u>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u></b>		
37	<p>Clause 38.0</p> <p>Clause 38.0 is amended by the addition of the following clause: 38.7</p> <p>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>	Item
<b><u>A39.0 CANCELLATION - CESSATION OF THE WORKS</u></b>		
38	<p>Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: 'within one hundred and twenty (120) working days of completion of such a report'</p>	Item
<b><u>DISPUTE</u></b>		
<b><u>A40.0 DISPUTE SETTLEMENT</u></b>		
39	<p>Clause 40.7.1 is amended by replacing '(10)' with '(15)' and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p>	Item
<b><u>SUBSTITUTE PROVISIONS</u></b>		
<b><u>A41.0 STATE CLAUSES</u></b>		
40	<p>Clause 41.0</p>	Item
<b><u>CONTRACT VARIABLES</u></b>		
<b><u>A42.0 THE SCHEDULE (DPW-04EC)</u></b>		
41	<p>Clause 42.0 Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract</p>	Item
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<b><u>SECTION B: JBCC PRELIMINARIES</u></b>		
<b><u>B1.0 DEFINITIONS AND INTERPRETATION</u></b>		
42	B1.1 Definitions and interpretation See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.	Item
<b><u>B2.0 DOCUMENTS</u></b>		
43	B2.1 Checking of documents	Item
44	B2.2 Provisional bills of quantities	Item
45	B2.3 Availability of construction documentation	Item
46	B2.4 Interests of agents	Item
47	B2.5 Priced documents	Item
48	B2.6 Tender submission Clause 2.6 is amended by replacing 'JBCC Form of Tender' with 'Form of Offer and Acceptance DPW-07(EC)'	Item
<b><u>B3.0 THE SITE</u></b>		
49	B3.1 Defined works area	Item
50	B3.2 Geotechnical investigation	Item
51	B3.3 Inspection of the site	Item
52	B3.4 Existing premises occupied	Item
53	B3.5 Previous work - dimensional accuracy	Item
54	B3.6 Previous work - defects	Item
55	B3.7 Services - known	Item
56	B3.8 Services - unknown	Item
57	B3.9 Protection of trees	Item
58	B3.10 Articles of value	Item
59	B3.11 Inspection of adjoining properties	Item
<b><u>B4.0 MANAGEMENT OF CONTRACT</u></b>		
60	B4.1 Management of the works	Item
61	B4.2 Programme for the works	Item
62	B4.3 Progress meetings	Item
63	B4.4 Technical meetings	Item
64	B4.5 Labour and plant records	Item
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<b><u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></b>			
65	B5.1 Samples of materials	Item	
66	B5.2 Workmanship samples	Item	
67	B5.3 Shop drawings	Item	
68	B5.4 Compliance with manufacturers' instructions	Item	
<b><u>B6.0 TEMPORARY WORKS AND PLANT</u></b>			
69	B6.1 Deposits and fees	Item	
70	B6.2 Enclosure of the works	Item	
71	B6.3 Advertising	Item	
72	B6.4 Plant, equipment, sheds and offices	Item	
73	B6.5 Main notice board	Item	
74	B6.6 Subcontractors' notice board	Item	
<b><u>B7.0 TEMPORARY SERVICES</u></b>			
75	B7.1 Location	Item	
76	B7.2 Water	Item	
77	B7.3 Electricity	Item	
78	B7.4 Telecommunication facilities	Item	
79	B7.5 Ablution facilities	Item	
<b><u>B8.0 PRIME COST AMOUNTS</u></b>			
80	B8.1 Responsibility for prime cost amounts	Item	
<b><u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u></b>			
81	B9.1 General Attendance	Item	
82	B9.2 Special Attendance	Item	
83	B9.3 Commissioning - fuel, water and electricity	Item	
<b><u>B10.0 FINANCIAL ASPECTS</u></b>			
84	B10.1 Statutory taxes, duties and levies	Item	
85	B10.2 Payment of preliminaries	Item	
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86	B10.3 Adjustment of preliminaries Clauses B10.3.1 and B10.3.2 are amended by replacing 'within fifteen (15) working days of taking possession of the site' with 'when submitting his priced bills of quantities / lump sum document'	Item
87	B10.4 Payment certificate cash flow	Item
<b><u>B11.0 GENERAL</u></b>		
88	B11.1 Protection of the works	Item
89	B11.2 Protection/isolation of existing/sectionally occupied works	Item
90	B11.3 Security of the works	Item
91	B11.4 Notice before covering work	Item
92	B11.5 Disturbance	Item
93	B11.6 Environmental disturbance	Item
94	B11.7 Works cleaning and clearing	Item
95	B11.8 Vermin	Item
96	B11.9 Overhand work	Item
97	B11.10 Instruction manuals and guarantees	Item
98	B11.11 As built information	Item
99	B11.12 Tenant installations	Item
<b><u>12.1 PRE-TENDER INFORMATION</u></b>		
12.1.1 Provisional bills of quantities [2.2] The quantities are provisional (Yes/No). Yes		
12.1.2 Availability of construction documentation [2.3] Construction documentation is not complete (Yes/No). No		
12.1.3 Interests of agents [2.4] Details:		
12.1.4 Defined works area [3.1] Details:		
12.1.6 Existing premises occupied [3.4] Specific requirements: The premises will be vacated for the duration of the contract period.		
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: The contractor is to preserve all trees on site and is to request instruction from the principal agent where trees are constricting the work areas or progress of work.		
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12.1.11 Inspection of adjoining properties [3.11] Specific requirements: The contractor is to ensure that no harm comes to adjoining buildings or property during the progress of the works.

12.1.12 Enclosure of the works [6.2] Specific requirements: The contractor is to enclose the works in the manner necessary to prevent members of the public, the client's workers or any other persons from being hurt due to coming into areas where construction activities are under way.

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.

12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge.

The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering

12.1.15 Subcontractors' notice board [6.6] A Notice Board is required (Yes/No). No Specific requirements: Not Applicable

12.1.16 Water [7.2] Option A - by Contractor Option A  
Applicable Option B - by employer (free of charge) Option C - by  
employer (metered)

12.1.17 Electricity [7.3] Option A - by Contractor Option A  
Applicable Option B - by employer (free of charge) Option C - by  
employer (metered)

12.1.18 Telecommunications [7.4] Telephone (Yes/No) Yes  
Facsimile (Yes/No) No

12.1.19 Ablution facilities [7.5] Option A (by contractor) (Yes/No)  
Option A Applicable Option B (by employer) (Yes/No)

12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required (Yes/No) Yes

12.1.21 Special attendance [9.2] Subcontractor (1) details: Not applicable

12.1.22 Protection of the works [11.1] Specific requirements: All precautions are to be taken to prevent damage or harm to the works. The client is to be indemnified against any and all eventualities. The existing buildings are to be insured against damage by the employer. However the contractor is to take all necessary precautions to prevent damage to existing buildings and property whilst he is in possession of the site.

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<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: The contractor is to ensure that no environmental damage occurs on or over the site during the execution of the works and whilst he is in possession of the site. All precautions are to be taken to ensure that the water, soil, vegetation and air on and over the site are not contaminated whilst the contractor is in possession of the site.</p> <p><b><u>12.2 POST-TENDER INFORMATION</u></b></p> <p>12.2.1 Payment of preliminaries [10.2] Option A (prorated) (Yes/No) Yes            Option B (calculated) (Yes/No)</p> <p>12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (Yes/No)            Yes            Option B (detailed breakdown) (Yes/No)</p> <p>12.2.3 Additional agreed preliminaries items Details: Not applicable</p> <p><b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b></p> <p><b><u>Section C: Specific Preliminaries:</u></b></p> <p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p> <p><b><u>C1 CONTRACT DRAWINGS</u></b></p> <p>100 The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.</p> <p><b><u>C2 GENERAL PREAMBLES</u></b></p> <p>101 The document 'Specification of Materials and Methods to be used (PW371)' is obtainable on the Department's website (<a href="http://www.publicworks.gov.za/">http://www.publicworks.gov.za/</a> under 'Consultants Guidelines), and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used</p> <p><b><u>C3 TRADE NAMES</u></b></p> <p>102 Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p>		
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<b><u>C4 IMPORTED MATERIALS AND EQUIPMENT</u></b>		
103	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)	Item
<b><u>C5 VIEWING THE SITE IN SECURITY AREAS</u></b>		
104	The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes	Item
<b><u>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</u></b>		
105	As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account	Item
<b><u>C7 ENTRANCE PERMITS TO SECURITY AREAS</u></b>		
106	As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer	Item
<b><u>C8 SECURITY CHECK OF PERSONNEL</u></b>		
107	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works	Item
<b><u>C9 PROHIBITION ON TAKING OF PHOTOGRAPHS</u></b>		
108	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959	Item
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<b><u>C10 HIV/AIDS AWARENESS</u></b>		
<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. The contractor must take note that compliance with the HIV/AIDS Specification is compulsory.</p> <p>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>		
<b><u>C10.1 AWARENESS CHAMPION</u></b>		
109	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	Item
<b><u>C10.2 AWARENESS WORKSHOPS</u></b>		
110	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	Item
<b><u>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</u></b>		
111	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	Item
<b><u>C10.4 ACCESS TO CONDOMS</u></b>		
112	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	Item
<b><u>C10.5 MONITORING</u></b>		
113	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	Item
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	<b><u>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</u></b>	
114	<p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory.</p> <p>In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 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. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>The Contractor is to price the health and safety bill of quantities located in the OHS Appendix A, the Contractor must sign the Certificate of Acquittance as evidence that he is au fait regarding the contents, obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &amp; Safety specifications. Failure, by the Tenderer, to sign the Certificate of Acquittance may result in the Tender being deemed non-responsive.</p>	Item
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## **SECTION NO. 2**

## **DEMOLITIONS**

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		Unit	Quantity	Rate	Amount
2	A storey building with flat roof, 17.5 x 12.42m on plan and 3m high overall, comprising reinforced concrete surface bed, external walls and internal walls, Asbestos roofing sheets to be removed by an approved and accredited specialist and disposed safely off site, all roof trusses. Note: The following items are to remain the property of the employer and are to be carefully taken out, temporarily stored, 1. Window frames 2. Door and frames	No	1		
3	Excavation in earth not exceeding 2m deep to remove foundations (Provisional)	m <sup>3</sup>	35		
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# **SECTION NO. 3**

# **ALTERATIONS**

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<b><u>SECTION NO. 3</u></b> <b><u>ALTERATIONS</u></b> <b><u>BILL NO. 1</u></b> <b><u>ALTERATIONS</u></b>  <b><u>UNFORSEEN REMEDIAL WORK</u></b> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>View site</u></b> <p>Before submitting his tender the tenderer 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 salvageable from the alterations. 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> <b><u>Explosives</u></b> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <b><u>General</u></b> <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 tenants in the building and 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> <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> <b><u>TEMPORARY BARRICADES, SCREENS, ETC</u></b> <b><u>Temporary barricades, screens, roofs, etc including removal</u></b>				
1				
Dust screen, 2 m high of suitable timber framing with 375 micron polyethylene sheeting stapled on on one side , including corners, ends, etc	m	400		
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		Unit	Quantity	Rate	Amount
<b><u>REMOVAL OF EXISTING WORK</u></b>					
<b><u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u></b>					
2	100mm Thick surface beds	m <sup>2</sup>	832		
<b><u>Breaking down and removing brickwork etc</u></b>					
3	One brick walls	m <sup>2</sup>	94		
<b><u>Taking out and removing doors, windows, etc from brickwork to be demolished</u></b>					
4	Timber single door and steel frame, including locks not exceeding 2,5m	No	10		
<b><u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u></b>					
5	Vinyl tile floor covering	m <sup>2</sup>	829		
<b><u>REMOVAL OF EXISTING ROOF COVERINGS</u></b>					
<b><u>Taking down and removing asbestos roof coverings not exceeding 50 degrees complete with ridge and hip capping, fittings, flashings, etc, and dispose off site by an approved specialist</u></b>					
6	Asbestos roof sheeting	m <sup>2</sup>	829		
<b><u>REMOVAL OF EXISTING TIMBER ROOF STRUCTURE</u></b>					
7	Timber roof structure, complete with total area 450.34m <sup>2</sup> (Measured on plan) including trusses, permanent bracing, gangboarding, purlins etc	No	1		
8	Timber roof structure, complete with total area 379.42m <sup>2</sup> (Measured on plan) including trusses, permanent bracing, gangboarding, purlins etc	No	1		
<b><u>REMOVING OF EXISTING ROOF COVERING SUNDRIES</u></b>					
<b><u>Taking down and removing sundry roof items</u></b>					
9	Fibre fascias	No	143		
10	Fibre barge boards	No	72		
11	uPVC eaves gutter and brackets	No	143		
12	uPVC rainwater pipes	No	12		
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		Unit	Quantity	Rate	Amount
<b><u>REMOVING OF EXISTING CEILINGS,PARTITIONING AND FLOORING</u></b>					
<b><u>Taking down and removing ceilings, partition, and flooring, etc</u></b>					
13	Gypsum plasterboard or fibre cement ceiling including cornices, cover strips, timber bandering, etc	m <sup>2</sup>	832		
<b><u>REMOVAL OF EXISTING JOINERY</u></b>					
<b><u>Taking out and removing sundry joinery work, fittings, etc</u></b>					
14	Pinning board overal size not exceeding 2,5m2	m	9		
15	Green writing board not exceeding 6,0m2	m	9		
<b><u>REMOVAL OF EXISTING PLASTERING</u></b>					
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc(elsewhere measured)</u></b>					
16	25mm screed from floors	m <sup>2</sup>	830		
17	Internal plaster from walls and columns	m <sup>2</sup>	431		
18	External plaster from walls, columns and beams	m <sup>2</sup>	215		
19	Chase out plaster cracks to form a recess 25mm wide and 20mm deep and filled with 4:1 cement mortar on and including galvanised bird wire and floating up smooth to match existing	m	140		
<b><u>REMOVAL OF EXISTING GLAZING</u></b>					
<b><u>Taking out and removing glass and mirrors</u></b>					
20	Glass from steel window including cleaning out rebates and preparing for new glass (elsewhere measured)	m <sup>2</sup>	89		
21	Rake out glazing putty, prepare rebates and re-putty.	m	360		
<b><u>PREPARATION WORK TO EXISTING SURFACES</u></b>					
<b><u>Preparatory work to existing plaster</u></b>					
22	Hacking faces of existing internal plaster, etc to receive plaster	m <sup>2</sup>	648		
23	Hacking faces of existing external plaster, etc to receive plaster	m <sup>2</sup>	376		
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		Unit	Quantity	Rate	Amount
<b><u>SERVICING OF EXISTING METAL WORK</u></b>					
<b><u>Service existing steel windows</u></b>					
24	Overhaul, adjust and service opening sections ensure proper operation	No	82		
25	Extra on servicing existing steel window sash for supply and fitting new handle	No	82		
26	Extra on servicing existing steel window sash for supply and fitting new sliding stay	No	82		
<b><u>TEMPORARY PARKHOMES</u></b>					
Rates for parkhomes to include standard windows, doors, burglar bars, gates, curtains and track, light fittings, chalk board and pinning boards					
<b><u>"M-Projects" or equal approved temporary parkhome units</u></b>					
<b><u>Provide temporary parkhomes on site for temporary educational facilities during the construction phase as herewith measured, including levelling, positioning on site and connections to an electrical supply including issuing compliance certificates</u></b>					
<b><u>Parkhomes are to be standard classroom size of minimum 7 x 7m or nearest size</u></b>					
27	Provision of Parkhomes	No	21		
28	Provision of two tier steps	No	21		
29	Provision of electrical compliance certificates for parkhomes	No	21		
30	Transport to and from site of parkhomes as per distance between supplier and site	No	21		
<b><u>UNFORSEEN REMEDIAL WORK</u></b>					
31	Provide the sum of R 150 000.00(One Hundred and Fifty Thousand Rand)for unforeseen remedial work to existing structures to be used as directed by the Principal Agent and deducted in part or whole as required	Item			
32	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for structural stitching to existing structures to be used as directed by the Principal Agent and deducted in part or whole as required	Item			
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**SECTION NO. 4**  
**BUILDING WORKS**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 1</u></b> <b><u>EARTHWORKS</u></b>  <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <b><u>Nature of material to be excavated</u></b> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock". <b><u>Carting away of excavated material</u></b> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site <b><u>Dewatering of excavations</u></b> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water <b><u>Density testing on filling</u></b> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally. <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 104. <b><u>EXCAVATION, ETC</u></b> <b><u>Excavation in earth not exceeding 2m deep for</u></b>				
1	Surface trenches, bases and ground beams.	m <sup>3</sup>	298	
Carried to Collection			R	
Section No. 4 Bill No. 1 Earthworks				

		Unit	Quantity	Rate	Amount
	<b><u>Extra over trench and hole excavation s in earth for excavation in</u></b>				
2	Soft rock.	m <sup>3</sup>	30		
3	Hard rock.	m <sup>3</sup>	14		
	<b><u>Extra over all excavation s for carting away</u></b>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. (Labour intensive).	m <sup>3</sup>	132		
	<b><u>Risk of collapse of excavations</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m <sup>2</sup>	710		
	<b><u>Keeping excavation s free from water</u></b>				
6	Keeping excavations free from mud and all water other than from subterranean sources.	Item			
	<b><u>FILLING, ETC</u></b>				
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>				
7	Under floors, etc.	m <sup>3</sup>	298		
8	Backfillin g to trenches , holes, etc.	m <sup>3</sup>	152		
	<b><u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density.</u></b>				
9	Under floors, etc.	m <sup>3</sup>	137		
	<b><u>Coarse river sand filling</u></b>				
10	Under floors, etc.	m <sup>3</sup>	171		
	<b><u>Compaction of surfaces</u></b>				
11	Compaction of ground surfaces under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m <sup>2</sup>	680		
	<b><u>Prescribed density tests on filling</u></b>				
12	'Modified AASHTO Density' test on fill material.	No	3		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Earthworks					



**BILL NO. 1**  
**EARTHWORKS**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BUILDING WORKS</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<b><u>PREAMBL ES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"				
<b><u>SUPPLEM ENTARY PREAMBL ES</u></b>				
<b><u>Proprietary products shall be used as specified.</u></b>				
<b><u>Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</u></b>				
Propriet ary product s shall be used as specifie d. Substit ute product s				
<b><u>Cost of tests</u></b>				
Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trail mixes				
The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwi se stated all items in this bill will be Work Group 110.				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>10MPa/19mm concrete in</u></b>				
<b><u>25 MPa/19mm concrete in</u></b>				
1	Strip footings	m <sup>3</sup>	71	
<b><u>REINFORCED CONCRETE</u></b>				
<b><u>25 MPa/19mm concrete in</u></b>				
2	Surface beds cast in panels on waterproofing.	m <sup>3</sup>	133	
3	Ramps	m <sup>3</sup>	21	
4	Walkway	m <sup>3</sup>	17	
Carried to Collection			R	
Section No. 4				
Bill No. 2				
Concrete, Formwork And Reinforcement				



	Unit	Quantity	Rate	Amount
5 Apron	m <sup>3</sup>	32		
6 Thickening to surface bed, including additional excavations, filling in and ramming, etc.	m <sup>3</sup>	13		
<b><u>CONCRETE TESTING</u></b>				
7 Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional).	No	10		
<b><u>CONCRETE SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a power float</u></b>				
8 Surface beds, slabs, etc	m <sup>2</sup>	1,342		
<b><u>FORMWORK</u></b>				
<b><u>Rough Formwork (Degree Of Accuracy II) To:</u></b>				
9 Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	223		
<b><u>MOVEMENT JOINTS, ETC</u></b>				
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick/concrete surfaces</u></b>				
10 10mm Joints not exceeding 300mm high	m	717		
<b><u>Saw cut joints</u></b>				
11 6 x 10mm Saw cut joints on top of concrete	m	154		
<b><u>sundries</u></b>				
12 Clean and seal saw-cut joints with pavelite.	m	154		
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
<b><u>Mild steel reinforcement to structural concrete work</u></b>				
13 12 Diameter bars	Kg	1,001.45		
14 10 Diameter bars	Kg	1,385.23		
<b><u>Fabric reinforcement</u></b>				
15 Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	1,503		
16 To Ramps.	m <sup>2</sup>	150		
17 to Apron	m <sup>2</sup>	339		
Carried to Collection			R	
Section No. 4				
Bill No. 2				
Concrete, Formwork And Reinforcement				

**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BUILDING WORKS</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p>PREAMBLES</p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick.</p> <p><b><u>Cement mortar</u></b></p> <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>Samples, etc</u></b></p> <p>Rates for brickwork, faced brickwork, etc shall include for all required samples</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 116.</p> <p><b><u>BRICKWORK IN SUBSTRUCTURE</u></b></p> <p><b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar:</u></b></p>				
1 One brick walls.	m <sup>2</sup>	293		
Carried to Collection			R	
Section No. 4				
Bill No. 3				
Masonry				

		Unit	Quantity	Rate	Amount
<b><u>BRICKWORKWORK IN SUPERSTRUCTURE</u></b>					
<b><u>Brickwork of NFP bricks in cement mortar:</u></b>					
2	Half brick walls.	m <sup>2</sup>	867		
3	One brick wall in beamfilling	m <sup>2</sup>	110		
<b><u>BLOCKWORK</u></b>					
<b><u>Blockwork in class II Mortar</u></b>					
4	140mm walls in beamfilling	m <sup>2</sup>	258		
<b><u>BRICKWORK SUNDRIES</u></b>					
<b><u>Brickwork reinforcement:</u></b>					
5	"Brickforce" or other approved high tensile steel wire welded brick reinforcement 75 mm wide well lapped at all angles and intersections and built into brick walls.	m	34		
6	230mm "Brickforce" or other approved high tensile steel wire welded reinforcement well lapped at all angles and intersections and built into brick walls.	m	3,549		
<b><u>Galvanised hoop iron cramps, ties, etc:</u></b>					
7	Galvanised hoop iron cramp 1,6 mm thick x 32 mm wide x 600 mm long with one end turned up, twice holed for and spiked to wood frame and other end built into brickwork.	No	127		
<b><u>Air bricks, etc:</u></b>					
8	225 x 150mm Glazed clay vermin proof air bricks.	No	34		
<b><u>MOVEMENT JOINTS</u></b>					
<b><u>Joint forming material in movement joints</u></b>					
9	10mm Bitumen impregnated insulation board expansion joint filler between abutting brick walls	m <sup>2</sup>	54		
<b><u>PRECAST CONCRETE</u></b>					
<b><u>Prestressed pre-fabricated concrete lintols</u></b>					
10	110 x 75 mm Lintols in lengths not exceeding 3m on floors under new brickwork.	m	141		
<b><u>FACE BRICKWORK</u></b>					
<b><u>Fair face (PC AMOUNT R 5000.00/1000) to brickwork in horizontal stretcher bond pointed with flush horizontal and vertical joints</u></b>					
11	Extra for fair face	m <sup>2</sup>	908		
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Bill No. 3					
Masonry					



**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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<b><u>SECTION NO. 4</u></b>				
<b><u>BUILDING WORKS</u></b>				
<b><u>BILL NO. 4</u></b>				
<b><u>WATERPROOFING</u></b>				
PREAMBLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<b><u>CPAP WORK GROUP 120</u></b>				
Unless otherwise stated all items in this bill will be Work Group 120.				
<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron embossed damp proof course</u></b>				
1	In walls.	m <sup>2</sup>	354	
<b><u>One layer of 250 micron USB green or similar approved waterproof sheeting sealed at laps with pressure sensitive tape</u></b>				
2	Under surface beds.	m <sup>2</sup>	680	
<b><u>JOINT SEALANTS, ETC</u></b>				
<b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>				
3	10 x 10mm In expansion joints in floors or walls including raking out expansion joint filler as necessary	m	210	
<b><u>Clear silicone sealant</u></b>				
4	In joint sealing and pointing between external aluminium window or door frames and facebrick surround	m	510	
Carried To Section Summary			R	
Section No. 4				
Bill No. 4				
Waterproofing				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 5</u></b> <b><u>ROOF COVERINGS</u></b>  PREAM BLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371" <b><u>SUPPLEM ENTARY PREAMBL ES</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent <b><u>Fixing</u></b> Fixing shall be done accordi ng to SABS 1200HB with minimu m 225mm end laps <b><u>Guarantee</u></b> The contract or will be required to provide a written guarantee, stating that: 1. The roof sheeting is of the specified thickness.2.The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years. <b><u>CPAP WORK GROUP</u></b> Unless otherwi se stated all items in this bill will be Work Group 124. <b><u>STEEL ROOF SHEETIN G AND ACCESSORIES</u></b> <b><u>Gavanised steel Z200 0.5mm IBR Roof sheeting with</u></b> <b><u>stiffened rib, complying with ISQ 550 (3T) (A653) with</u></b> <b><u>a Chromadek colour coated in mill finish to one side</u></b> <b><u>with a Pebble grey backing or similar approved,</u></b> <b><u>fixed to timber od steel purlins in accordance with</u></b> <b><u>the manufacturers instructions:</u></b>				
1	Roof coverin g with pitch not exceeding 25°.	m <sup>2</sup>	1,816	
2	Ridge capping 450mm girth	m	155	
3	Broad flute serrated poly ridge closers	m	312	
<b><u>"Sondor"</u></b> 4 Sondor corrugated pattern polyclosures at ridge and eaves				
		m	400	
Carried to Collection			R	
Section No. 4 Bill No. 5 Roof Coverings				





**BILL NO. 5**  
**ROOF COVERINGS**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 6</u></b> <b><u>CARPENTRY AND JOINERY</u></b>  PREAMBLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"  <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>CARPENTRY</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent  <b><u>Roof trusses</u></b> The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate.  <b><u>Joinery</u></b> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.  Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes  <b><u>Fixing</u></b> All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails, in coastal areas, copper, aluminium or stainless steel nails shall be used.  Items described as 'naile' shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete  Where items are described as 'bolts' the bolts have been measured elsewhere  <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 126.				
Carried to Collection			R	
Section No. 4 Bill No. 6 Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
<b><u>ROOFS, ETC</u></b>					
<b><u>Sawn softwood grade 4</u></b>					
1	38 x 114 mm Wall Plates	m	312		
2	76 x 76 mm Bracing.	m	412		
3	38 x 152 mm Rafters	m	2,028		
<b><u>Sawn softwood grade 4</u></b>					
4	50 x 76mm Purlins.	m	2,284		
<b><u>Sundries:</u></b>					
5	'Hurricane clip' between truss and windbracing (Provisional)	No	650		
<b><u>PREFABRICATED ROOF TRUSSES, ETC. (PROVISIONAL)</u></b>					
<p><b><u>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.</u></b></p> <p><b><u>Plate nailed timber roof truss construction:</u></b></p> <p>Note: Tenderers are referred to the Architects roof plan drawings annexed to these bills of quantities / accompanying these bills of quantities for tender purposes. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design</p> <p><b><u>Mono pitched trusses:</u></b></p>					
6	Roof construction to double pitched roof with gable ends with total area 419m <sup>2</sup> (measured on plan) with 600mm wide overhang on the eaves side and 400mm overhang on the gable side all in accordance to the Architects Specifications all including trusses	No	3		
Carried to Collection				R	
Section No. 4					
Bill No. 6					
Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
7	Roof construction to double pitched roof with gable ends with total area 142m <sup>2</sup> (measured on plan) with 600mm wide overhang on the eaves side and 400mm overhang on the gable side all in accordance to the Architects Specifications all including trusses	No	1		
8	Roof construction to double pitched roof with gable ends with total area 380m <sup>2</sup> (measured on plan) with 600mm wide overhang on the eaves side and 400mm overhang on the gable side all in accordance to the Architects Specifications all including trusses	No	1		
<b><u>EAVES, VERGES, ETC</u></b>					
<b><u>Medium density plain fibre cement</u></b>					
9	15 x 225mm Fascias and barge boards including steel H-profile jointing strips or equal approved	m	330		
<b><u>SKIRTINGS</u></b>					
<b><u>Wrought meranti</u></b>					
10	19 x 76mm Skirting with and including 19mm quadrant bead.	m	671		
<b><u>JOINERY</u></b>					
<b><u>DOORS, ETC</u></b>					
<b><u>Wrought meranti doors hung to steel frames</u></b>					
11	40mm meranti FLB flush door ,size 813 x 2032mm high of 115mm top rail, mullion rail and stiles, 115mm middle rail and 212 mm bottom rail, with 32mm thick solid raised and fielded top and bottom panels.	No	23		
<b><u>Semi-solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u></b>					
12	40mm Door size 813 x 2032mm high.	No	1		
Carried to Collection				R	
Section No. 4					
Bill No. 6					
Carpentry And Joinery					

**BILL NO. 6**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 8</u></b> <b><u>FLOOR COVERINGS</u></b>  PREAMBLES Works to be executed by SMME sub Contractor For Preambles refer to "Department of Public Works: specification of materials and methods to be used - PW371"  <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.  <b><u>Cleaning</u></b> Rates for floor covering shall include for cleaning on completion  <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 130.  <b><u>FLOOR COVERINGS</u></b> <b><u>Vinyl Tile Flooring</u></b> <b><u>2,5mm semi-flexible vinyl sheetings of selected colour:</u></b>				
1	Floors	m <sup>2</sup>	1,343	
<b><u>POLISH, SEALERS, ETC</u></b> <b><u>Clean down, strip and apply three coats vinyl wax sealant and mechanically buff up to high glass finish:</u></b>				
2	Two coats floor dressing as recommended by the manufacturer of the floor covering on vinyl flooring	m <sup>2</sup>	1,343	
Carried To Section Summary				R
Section No. 4				
Bill No. 8				
Floor Coverings				



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 9</u></b> <b><u>IRONMONGERY</u></b>  PREAMBLES for Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".  <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <b><u>Fixing</u></b> Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories. Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer. <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 132. <b><u>HINGES, BOLTS, ETC</u></b> <b><u>"Solid" or similar approved</u></b> 1 100mm brass hinge with nylon washers No 50  <b><u>LOCKS</u></b> <b><u>"Union"</u></b> 2 3630-50 padlock No 25  <b><u>"Union"</u></b> <b><u>The following locks are to be suitable for master key</u></b> <b><u>operation</u></b> 3 "Reference 390/313" Four lever lockset with striking plate fixed to metal No 25 4 Master key No 1   <div>Carried to Collection</div> <div>R</div>				
Section No. 4 Bill No. 9 Ironmongery				

		Unit	Quantity	Rate	Amount
	<b><u>Sundries:</u></b>				
5	Rubber door stop plugged and screwed to wall or floor	No	25		
	<b><u>HANDLES</u></b>				
	<b><u>Handles.</u></b>				
6	Anodised aluminium pull handle on 150 x 150mm backplate	No	25		
	<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u></b>				
7	Pinning board 1200 x 900mm high overall of 9mm 'Flortime' pinning board glued to 12mm chipboard backboard plugged and screwed and framed with 30 x 60mm wrought meranti varnished frame	No	20		
	<b><u>Manufactured by 'Vitrex'</u></b>				
8	Green writing board 4800 x 1140mm high with chalk rail plugged	No	20		
	<b><u>Sundries</u></b>				
9	Allow a Budgetary Allowance of R 5,000.00 (Five Thousand Rand) for supply and installation of directional signage	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 9					
Ironmongery					

**BILL NO. 9**  
**IRONMONGERY**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 10</u></b> <b><u>METALWORK</u></b>  PREAMBLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371". <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <b><u>Descriptions</u></b> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete Metalwork described as 'holed for bolt (s)' shall be deemed to exclude the bolts unless otherwise described. <b><u>CPAP WORK GROUP</u></b> <b><u>HOT DIPPED GALVANISED PRESSED STEEL GATES AND FRAME BUILT INTO BRICKWORK</u></b> <b><u>The Following In Hot Dip Galvanised After Fabrication Mild Steel Framed And Welded Gate Including All Welding, Cutting, Drilling And Grinding Smooth/ Trelidors or similar approved</u></b>				
1	No	23		
Single gate 820 x 2050mm high of 60 x 40 x 2,5mm hollow section frame filled in with 40 x 20 x 2,5mm hollow section verticals at 120mm centres, fitted with narrow stile lock box and backing plate and two 100mm heavy duty butt hinges welded on				
Carried to Collection			R	
Section No. 4				
Bill No. 10				
Metalwork				

	Unit	Quantity	Rate	Amount
<b><u>PRE- GALVANISED PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>1,6mm Thick Double Rebated Frame For Half Brick Wall Complete With Three Butts Per Leaf, PVC Buffers To Closing Style, Etc. And Including Setting Up, Building In, Filling Back Of Frame With Cement Mortar, Etc.</u></b>				
2	No	1		
<b><u>1,6mm Thick Double Rebated Frame For One Brick Wall Complete With Three Butts Per Leaf, PVC Buffers To Closing Style, Etc. And Including Setting Up, Building In, Filling Back Of Frame With Cement Mortar, Etc.</u></b>				
3	No	14		
<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>				
<b><u>Welded screens and gates to ?</u></b>				
4	No	14		
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>				
<b><u>Standard industrial windows</u></b>				
<b><u>Standard hot dipped galvanised mild steel residential top-hung open out:</u></b>				
5	No	62		
6	No	50		
7	No	2		
8	m	76		
Carried to Collection			R	
Section No. 4				
Bill No. 10				
Metalwork				

**BILL NO. 10**  
**METALWORK**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BUILDING WORKS</u></b>				
<b><u>BILL NO. 11</u></b>				
<b><u>PLASTERING</u></b>				
PREAMBLES				
Works to be executed by SMME sub Contractor				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
proprietary products shall be used as specified.				
Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 142.				
<b><u>SCREEDS</u></b>				
<b><u>Screeds on concrete</u></b>				
1	30mm Screed on floors	m <sup>2</sup>	1,345	
2	30mm Screed on narrow widths	m <sup>2</sup>	12	
<b><u>GRANOLITHIC</u></b>				
<b><u>Untinted granolithic on concrete:</u></b>				
3	25mm Thick on floors and landings	m <sup>2</sup>	244	
<b><u>PLASTERING ON WALLS</u></b>				
<b><u>INTERNAL PLASTER</u></b>				
<b><u>Cement plaster on brickwork</u></b>				
4	On walls, beams, column, etc.	m <sup>2</sup>	2,002	
5	On narrow widths.	m <sup>2</sup>	35	
<b><u>EXTERNAL PLASTER</u></b>				
<b><u>Cement plaster on brickwork</u></b>				
6	On walls, beams, columns, etc.	m <sup>2</sup>	546	
7	On narrow widths.	m <sup>2</sup>	8	
Carried To Section Summary			R	
Section No. 4				
Bill No. 11				
Plastering				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 12</u></b> <b><u>PLUMBING AND DRAINAGE</u></b>  PREAMBLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".  <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.  <b><u>Fixing</u></b> Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories. Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.  <b><u>Chasing</u></b> Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes.  <b><u>Stainless steel sanitary fittings</u></b> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.  <b><u>Waste unions</u></b> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings  <b><u>PLUMBING</u></b> <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 148.				
Carried to Collection			R	
Section No. 4 Bill No. 12 Plumbing And Drainage				



		Unit	Quantity	Rate	Amount
<b><u>RAINWATER DISPOSAL</u></b>					
<b><u>Aluminium gutters and fixing in strict accordance with the manufacturer's instructions</u></b>					
1	150 x 150mm Ogee eaves gutter including fixing to falls on patent brackets spaced at maximum 1000mm centres fixed to fibre reinforced cement fascia with brass bolts with nuts and washers.	m	330		
<b><u>Extra for</u></b>					
2	Outlet with 80mm diameter nozzle.	No	20		
<b><u>(End of extra for)</u></b>					
3	80mm Diameter rainwater pipe and fixing to wall with holderbats plugged to wall	m	60		
<b><u>Extra For</u></b>					
4	Offset bend.	No	20		
5	90 Degree bend	No	20		
6	Shoe.	No	20		
Carried to Collection				R	
Section No. 4					
Bill No. 12					
Plumbing And Drainage					

**BILL NO. 12**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 13</u></b> <b><u>GLAZING</u></b>  PREAMBLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"  Specification of materials and methods to be used - P  W371" <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Proprietary products in descriptions</u></b> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <b><u>CPAP WORK GROUP</u></b> Unless otherwise stated all items in this bill will be Work Group 150. <b><u>GLAZING TO STEEL WITH PUTTY</u></b> <b><u>4mm Clear float glass</u></b>				
1	Panes exceeding 0,1m and not exceeding 0,5m	m <sup>2</sup>	74	
Carried To Section Summary				R
Section No. 4				
Bill No. 13				
Glazing				

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BUILDING WORKS</u></b>				
<b><u>BILL NO. 14</u></b>				
<b><u>PAINTWORK</u></b>				
PREAMBLES				
Works to be executed by SMME sub Contractor				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified.				
Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 152.				
<b><u>PAINTWORK, ETC</u></b>				
<b><u>ON NEW INTERNAL FLOATED PLASTER SURFACES</u></b>				
<b><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></b>				
1	On walls.	m <sup>2</sup>	1,075	
<b><u>ON NEW INTERNAL GYPSUM PLASTER SURFACES</u></b>				
<b><u>One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u></b>				
2	Ceilings and beams (White colour group)	m <sup>2</sup>	1,343	
<b><u>ON NEW FIBRE-CEMENT BOARD SURFACES</u></b>				
<b><u>Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint</u></b>				
3	Fascias and barge boards not exceeding 300mm girth , including priming metal jointing strips	m	295	
<b><u>ON NEW METAL SURFACES</u></b>				
<b><u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u></b>				
4	Door frames	m <sup>2</sup>	75	
Carried to Collection			R	
Section No. 4				
Bill No. 14				
Paintwork				

		Unit	Quantity	Rate	Amount
5	Windows with burglar bars	m <sup>2</sup>	300		
6	Rails, bars, pipes, etc not exceeding 300mm girth	m	60		
	<b><u>ON NEW WOOD SURFACES</u></b>				
	<b><u>One coat primer and two coats premium quality polyurethane enamel paint</u></b>				
7	Doors	m <sup>2</sup>	57		
	<b><u>One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></b>				
8	Door frames etc	m <sup>2</sup>	15		
	<b><u>ON EXISTING INTERNAL FLOATED PLASTER SURFACES</u></b>				
	<b><u>Two coats superior quality acrylic emulsion paint for interior and exterior use</u></b>				
9	Walls	m <sup>2</sup>	927		
	<b><u>ON EXISTING EXTERNAL FLOATED PLASTER SURFACES</u></b>				
	<b><u>Two coats superior quality acrylic emulsion paint for exterior use</u></b>				
10	Walls	m <sup>2</sup>	546		
Carried to Collection				R	
Section No. 4					
Bill No. 14					
Paintwork					

**BILL NO. 14**  
**PAINTWORK**  
**COLLECTION**

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		Amount	
<b><u>SECTION NO. 4</u></b>			
<b><u>BUILDING WORKS</u></b>			
<b><u>SECTION SUMMARY</u></b>			
Bill No.		Page	
1	EARTHWORKS	5	
2	CONCRETE, FORMWORK AND REINFORCEMENT	8	
3	MASONRY	12	
4	WATERPROOFING	13	
5	ROOF COVERINGS	16	
6	CARPENTRY AND JOINERY	20	
7	CEILINGS PARTITIONS AND ACCESS FLOORING	21	
8	FLOOR COVERINGS	22	
9	IRONMONGERY	25	
10	METALWORK	28	
11	PLASTERING	29	
12	PLUMBING AND DRAINAGE	32	
13	GLAZING	33	
14	PAINTWORK	36	
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**SECTION NO. 5**  
**ELECTRICAL WORKS**



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 5</u></b>				
<b><u>ELECTRICAL WORKS</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>ELECTRICAL INSTALLATION</u></b>				
<b><u>LIGHTING, SMALL POWER, CONDUITING, WIRING AND DISRIBUTION BOARDS TO NEW BUILDINGS</u></b>				
<b><u>LIGHTING AND SOCKET OUTLETS</u></b>				
<b><u>Supply and delivery of light fittings including lamps</u></b>				
1 L01-A - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm)	No	36		
2 L01-A/E - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm), With 60 Battery Back up.	No	12		
3 L02-A - 15W LED Bulkhead IP65 (+/- 300mm), (>= 2200lm)	No	26		
4 Photocell for External Lighting	No	3		
5 16A 1 lever 2 way switch, with white cover plate; Flush Mounted; SABS approved, Crabtree Diamond range, Clipsal S2000, similar or equivalent .....	No	13		
6 Double 15Amp 3pin flush mounted socket outlet	No	28		
<b><u>Installation of light fittings including connections</u></b>				
7 L01-A - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm)	No	36		
8 L01-A/E - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm), With 60 Battery Back up.	No	12		
9 L02-A - 15W LED Bulkhead IP65 (+/- 300mm), (>= 2200lm)	No	26		
10 Photocell for External Lighting	No	3		
11 16A 1 lever 2 way switch, with white cover plate; Flush Mounted; SABS approved, Crabtree Diamond range, Clipsal S2000, similar or equivalent	No	13		
12 Double 15Amp 3pin flush mounted socket outlet	No	28		
<b><u>CONDUIT</u></b>				
<b><u>Supply and Delivery of PVC conduits including fixing accessories and supports</u></b>				
13 20mm diameter PVC conduit	m	1,232		
Carried to Collection			R	
Section No. 5				
Bill No. 1				
Electrical Installation				

		Unit	Quantity	Rate	Amount
14	100 x 50mm conduit boxes	No	20		
15	100x100mm conduit boxes	No	42		
16	50 mm round box	No	308		
17	50mm Incoming Sleeve	m	50		
	<b><u>Supply and Delivery of hot dip galvanized conduits including fixing accessories and supports</u></b>				
18	32mm diameter hdg conduit	m	30		
	<b><u>Installation of hot dip galvanized conduits including fixing accessories and supports</u></b>				
19	32mm diameter hdg conduit	m	30		
	<b><u>WIRING</u></b>				
	<b><u>Supply and delivery of cu/pvc wiring</u></b>				
20	2.5 mm2 (3x grouped) [red, black and earth]	m	1,848		
	<b><u>Installation of cu/pvc wiring in flush mounted PVC conduit</u></b>				
21	2.5 mm2 (3x grouped) [red, black and earth]	m	1,848		
	<b><u>CABLING</u></b>				
	<b><u>Supply delivery and installation of Cu/600/1000V PVC/PVC/SWA-ECC/PVC cable</u></b>				
22	10mm2 x 3core	m	150		
23	4mm2 x 3core	m	355		
	<b><u>Termination of cable inclusive of glands</u></b>				
24	10mm2 x 3core	No	6		
25	4mm2 x 3core	No	6		
	<b><u>DISTRIBUTION BOARD</u></b>				
	<b><u>Supply and Delivery of Distribution Boards as per Drawings</u></b>				
26	DB-BLOCK A/N - Distribution Board as specified in drawing: 18016-02-E-4150, 3CR12 Surface Mount DB, White; with white internal cover plates, Complete with switchgear and test certificates	Item			
27	DB-BLOCK B/N - Distribution Board as specified in drawing: 18016-02-E-4151, 3CR12 Surface Mount DB, White; with white internal cover plates, Complete with switchgear and test certificates	Item			
Carried to Collection				R	
Section No. 5					
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Electrical Installation					

		Unit	Quantity	Rate	Amount
28	DB-BLOCK C/N - Distribution Board as specified in drawing: 18016-02-E-4152, 3CR12 Surface Mount DB, White; with white internal cover plates, Complete with switchgear and test certificates	Item			
	<b><u>Installation of Distribution Boards as per Drawings</u></b>				
29	DB-BLOCK A/N	Item			
30	DB-BLOCK B/N	Item			
31	DB-BLOCK C/N	Item			
	<b><u>Modification of Existing Distribution Board</u></b>				
32	Supply and Install 63A, 6kA, double pole circuit breaker	No	3		
	<b><u>Trenching</u></b>				
33	Trenching in Soft Material	m	505		
	<b><u>Earthing and Lightning Protection</u></b>				
34	Earthing, bonding and lightning protection	Lump Sum			
	<b><u>Sundries</u></b>				
35	Certificate of Compliance	Lump Sum			
	<b><u>EXISTING BUILDINGS</u></b>				
	<b><u>LIGHTING and SOCKET OUTLETS</u></b>				
	<b><u>Supply and delivery of light fittings including lamps</u></b>				
36	L01-A - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm) - Supply	No	30		
37	L01-A/E - 46W LED IP65, 1200mm Vapor Proof Luminair (Recessed, ~7000lm), With 60 Battery Back up. - Supply	No	11		
38	L02-A - 15W LED Bulkhead IP65 (+/- 300mm), (>= 2200lm) - Supply	No	14		
39	16A 1 lever 2 way switch, with white cover plate; Flush Mounted; SABS approved, Crabtree Diamond range, Clipsal S2000, similar or equivalent .....Supply	No	13		
40	Double 15Amp 3pin flush mounted socket outlet	No	21		
41	Installation of PVC conduits in brick walls and ceilings including fixing accessories and supports	m	1		
	Carried to Collection			R	
	Section No. 5				
	Bill No. 1				
	Electrical Installation				

		Unit	Quantity	Rate	Amount
42	<b><u>WIRING</u></b> 2.5 mm2 (3x grouped) [red, black and earth] - Supply	m	924		
43	<b><u>Sundries</u></b> Certificate of Compliance	Lump Sum			
Carried to Collection					
Section No. 5 Bill No. 1 Electrical Installation					

**BILL NO. 1**  
**ELECTRICAL INSTALLATION**  
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**SECTION NO. 5**  
**ELECTRICAL WORKS**  
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ELECTRICAL INSTALLATION

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## **SECTION NO. 6**

### **EXTERNAL WORKS (Provisional)**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 6</u></b>				
<b><u>EXTERNAL WORKS (Provisional)</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>External Works (Provisional)</u></b>				
PREAMBLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 104.				
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>				
<b><u>Open face excavation in earth over sloping site:</u></b>				
1	Excavate for platforms.	m <sup>3</sup>	394	
<b><u>Extra over bulk excavations in earth for excavation in:</u></b>				
2	Soft rock	m <sup>3</sup>	39	
3	Hard rock	m <sup>3</sup>	20	
<b><u>Keeping excavations free of water:</u></b>				
4	Keeping excavations free of all water other than subterranean water	Item		
<b><u>Risk of collapse of excavations:</u></b>				
5	Sides of bulk excavations not exceeding 1,5m deep	m <sup>2</sup>	35	
<b><u>Extra only over all bulk excavations for loading and carting away:</u></b>				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	394	
<b><u>Earth filling from the excavations deposited in layers not exceeding 150mm thick(Not compacted)</u></b>				
7	Topsoil from excavations, spread and leveled over site and abutting kerbs, wall etc.	m <sup>3</sup>	59	
<b><u>Earth filling (G7) supplied by the contractor compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density:</u></b>				
8	Over site to form platforms, banks, etc	m <sup>3</sup>	394	
Carried to Collection			R	
Section No. 6				
Bill No. 1				
External Works (provisional)				



		Unit	Quantity	Rate	Amount
	<b><u>Compaction of ground surfaces:</u></b>				
9	Stabilize in-situ reduced levels by scarifying to depth of 150mm and compacting to a density of 93% Modified AASHTO maximum density	m <sup>2</sup>	1,970		
	<b><u>Prescribed density tests on filling:</u></b>				
10	Allow for the execution of all prescribed density tests on filling, etc., as pointed out by the Principal Agent on site	No	10		
	<b><u>THE FOLLOWING IN 9 NO RAINWATER TANKS AND TANK STANDS</u></b>				
	<b><u>EXCAVATION, FILLING, ETC.</u></b>				
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>				
11	Trenches	m <sup>3</sup>	52		
	<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>				
12	Soft rock	m <sup>3</sup>	5		
13	Hard rock	m <sup>3</sup>	3		
	<b><u>Keeping excavations free of water:</u></b>				
14	Keeping excavations free of all water other than subterranean water	Item			
	<b><u>Risk of collapse of excavations:</u></b>				
15	Sides of trench and hole excavation not exceeding 1,5m deep	m <sup>2</sup>	87		
	<b><u>Extra over all excavations for carting away:</u></b>				
16	Surplus material to a suitable dumping site located by the contractor	m <sup>3</sup>	18		
	<b><u>Selected earth filling from the excavations deposited in layers not exceeding 150mm thick after compaction and compacted to a density of 95% Modified AASHTO maximum density:</u></b>				
17	Backfilling to trenches, hole, etc	m <sup>3</sup>	11		
	<b><u>Earth filling (G5) supplied by the contractor compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>				
18	Under water tank slab including leveling and compacting	m <sup>3</sup>	19		
	<b><u>CONCRETE</u></b>				
	<b><u>25MPa/19mm Reinforced concrete in:</u></b>				
19	Strip footing	m <sup>3</sup>	13		
	Carried to Collection			R	
	Section No. 6				
	Bill No. 1				
	External Works (provisional)				

		Unit	Quantity	Rate	Amount
20	Concrete splash apron	m <sup>3</sup>	2		
	<b><u>30MPa/19mm Reinforced concrete in:</u></b>				
21	Surface beds, slabs, etc	m <sup>3</sup>	8		
	<b><u>TEST BLOCKS</u></b>				
22	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use and waste of approved cube moulds, transporting to an approved laboratory for testing, paying all charges and submitting reports to the Principal Agent.	No	3		
	<b><u>Sundries:</u></b>				
23	Extra for setting in position and casting holding down bolt into concrete base.	No	36		
	<b><u>FORMWORK CLASS F2 (SMOOTH FINISH)</u></b>				
	<b><u>Formwork to sides:</u></b>				
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	95		
	<b><u>Boxing in Class F2 formwork to form:</u></b>				
25	50 x 50mm horizontal chamfer.	m	95		
	<b><u>REINFORCEMENT</u></b>				
	<b><u>Fabric reinforcement:</u></b>				
26	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	63		
	<b><u>BRICKWORK</u></b>				
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar:</u></b>				
27	One brick walls	m <sup>2</sup>	95		
	<b><u>Brickwork reinforcement:</u></b>				
28	High tensile steel fabric reinforcement 150mm wide to every second course of brick walls lapped full widths at angles and junctions and building in.	m	556		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Fair face (PC AMOUNT R 5000.00/1000) to brickwork in horizontal stretcher bond pointed with flush horizontal and vertical joints</u></b>				
29	Extra over brickwork for fair face brickwork externally	m <sup>2</sup>	71		
Carried to Collection				R	
Section No. 6					
Bill No. 1					
External Works (provisional)					

	Unit	Quantity	Rate	Amount
<b><u>VAPOUR BARRIERS</u></b>				
The following vapour barriers are to be of one layer of 250 microns damp proof sheeting in accordance with SABS 952 type 'C'				
Care is to be taken to avoid puncturing or tearing the sheeting before and during placing of concrete; any damage to sheeting is to be made good to the satisfaction of the Principal Agent.				
Prices are to include for all cutting and waste, laying in single sheets wherever possible, lapping 100mm at all intersections, sealing all laps with hyperlastic adhesive and proofweld flashing tape - all in strict accordance with the manufacturers instructions.				
All measurements are nett				
<b><u>One layer of 250 micron waterproof sheeting sealed at laps with "gunplas Pressure sensitive tape"</u></b>				
30	Under concrete surface beds including turning up edges against walls	m <sup>2</sup>	47	
<b><u>Taps, Valves, etc</u></b>				
<b><u>"cobra Watertech"</u></b>				
31	15mm, 111CP "Star" Pillartap	No	9	
<b><u>Green polyethylene water tanks, etc:</u></b>				
32	5500 Litre polyethylene rotomoulded vertical water storage tank complete, size 2510 x 2120 x 1450mm with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete. (Note: tanks to be filled with water before Practical Completion)	No	9	
33	Outlet Union for 22mm copper pipe including hole through tank	No	9	
<b><u>CONCRETE STORMWATER CHANNELS ETC</u></b>				
<b><u>Concrete stormwater channels</u></b>				
34	V - Shaped surface channel 1100 x 300mm high extreme cast in lengths to falls not exceeding 2m long with and including type 193 fabric reinforcement, 10mm softboard joint material between panels and abutting walls, raked out to a depth of 20mm and sealed with grey polysulphide sealant	m	442	
Carried to Collection			R	
Section No. 6				
Bill No. 1				
External Works (provisional)				

		Unit	Quantity	Rate	Amount
35	Extra over V-channel for angles, intersection, ends,dressing into sides of catchpits, etc	No	45		
Carried to Collection				R	
Section No. 6					
Bill No. 1					
External Works (provisional)					

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**External Works (Provisional)**  
**COLLECTION**

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**SECTION NO. 6**  
**EXTERNAL WORKS (Provisional)**  
**SECTION SUMMARY**

Bill No.  
1

External Works (Provisional)

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Section No. 6  
SECTION SUMMARY

R

**SECTION NO. 7**  
**PROVISIONAL SUMS**

**SECTION NO. 7****PROVISIONAL SUMS****PROVISIONAL SUMS****General**

Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building contract and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned

Provisional sums are for material and equipment supplied and installed complete by firms of specialists

**Profit**

Where stated, the contractor may allow for profit if required

**General attendance on nominated/selected subcontractors**

The item 'attendance' which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement

**Special attendance on nominated/selected subcontractors**

Where 'special attendance' such as unloading, storing, placing in position, providing special power supplies, specific hoisting, craneage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements

**Builder's work**

Builder's work in connection with specialist services is given elsewhere in these bills of quantities

**LIGHTNING PROTECTION**

- 1 Provide the sum of R60, 000.00 (Sixty Thousand Rand) for lightning protection complete
- 2 Profit
- 3 Attendance

**PLUMBING AND DRAINAGE**

- 4 Provide the sum of R50,000.00 (Fifty Thousand Rand) for complete plumbing and drainage maintenance works

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Section No. 7

Bill No. 1

Provisional Sums

Amount	
Item	60,000 00
Item	
Item	
Item	50,000 00
R	



5 Profit

Item

6 Attendance

Item

**COMMUNITY LIAISON OFFICER**

7 Provide the sum of R120,000.00 (One Hundred and Twenty Thousand Rand) for Community Liaison officer

Item

120,000 00

8 Profit

Item

9 Attendance

Item

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**SECTION NO. 7**  
**PROVISIONAL SUMS**  
**SECTION SUMMARY**

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ADD: CONTINGENCIES (5%)	
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Allow contingencies to be used upon approval by the Client in terms of Clause 17 of the JBCC Principal Building Agreement.	
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SubTotal excluding Value Added Tax	
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ADD VAT @ 15%:	
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Carried to Tender	
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FINAL SUMMARY	
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