

SECTION NO. 1
PRELIMINARIES

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PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

The JBCC Series 2000 Principal Building Agreement (Edition 5.0 Code 2101 July 2007) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described

The ASAQs 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

Item

OBJECTIVE AND PREPARATION

A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

2 Clause 2.0

Item

A3.0 DOCUMENTS

3 Clause 3.0

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	<p>Clause 3.2.1 is amended by replacing '14.1' with '14.0' Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>Clause 3.10 is amended by replacing the second reference to 'principal agent' with the word 'employer'</p>	
	<u>A4.0 DESIGN RESPONSIBILITY</u>	
4	Clause 4.0.	Item
	<u>A5.0 EMPLOYER'S AGENTS</u>	
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
	<u>A6.0 SITE REPRESENTATIVE</u>	
6	Clause 6.0	Item
	<u>A7.0 COMPLIANCE WITH REGULATIONS</u>	
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
	<u>A8.0 WORKS RISK</u>	
8	Clause 8.0	Item
	<u>A9.0 INDEMNITIES</u>	
9	Clause 9	Item
	<u>A10.0 WORKS INSURANCES</u>	
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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subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply: 10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or

destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs 10.7.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the

site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract 10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any

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

A11.0 LIABILITY INSURANCES

11 Clause 11.0

Item

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A12.0 EFFECTING INSURANCES

12 Clause 12.0

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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
	<u>EXECUTION</u>	
	<u>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</u>	
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
	<u>A16.0 ACCESS TO THE WORKS</u>	
15	Clause 16.0	Item
	<u>A17.0 CONTRACT INSTRUCTIONS</u>	
16	Clause 17.0	Item
	<u>A18.0 SETTING OUT OF THE WORKS</u>	
17	Clause 18.0	Item
	<u>A19.0 ASSIGNMENT</u>	
18	Clause 19.0	Item
	<u>A20.0 NOMINATED SUBCONTRACTORS</u>	
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
	<u>A21.0 SELECTED SUBCONTRACTORS</u>	
20	Clause 21.0	Item
	<u>A22.0 EMPLOYER'S DIRECT CONTRACTORS</u>	
21	Clause 22.0	Item
	<u>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u>	
22	Clause 23.0	Item
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<u>COMPLETION</u>		
<u>A24.0 PRACTICAL COMPLETION</u>		
23	Clause 24.0	Item
<u>A25.0 WORKS COMPLETION</u>		
24	Clause 25.0	Item
<u>A26.0 FINAL COMPLETION</u>		
25	Clause 26.0 Clause 26.1.2 is amended by inserting '#' next to 26.1.2	Item
<u>A27.0 LATENT DEFECTS LIABILITY PERIOD</u>		
26	Clause 27.0	Item
<u>A28.0 SECTIONAL COMPLETION</u>		
27	Clause 28.0	Item
<u>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</u>		
28	Clause 29.0	Item
<u>A30.0 PENALTY FOR NON-COMPLETION</u>		
29	Clause 30.0	Item
<u>PAYMENT</u>		
<u>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</u>		
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>	Item
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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 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>	Item
	<u>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</u>	
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
	<u>A33.0 RECOVERY OF EXPENSE AND LOSS</u>	
32	Clause 33.0	Item
	<u>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</u>	
33	Clause 34.0	Item
	<u>A35.0 PAYMENT TO OTHER PARTIES</u>	
34	Clause 35.0	Item
	<u>CANCELLATION</u>	
	<u>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>	
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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<u>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u>		
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
<u>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u>		
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
<u>A39.0 CANCELLATION - CESSATION OF THE WORKS</u>		
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
<u>DISPUTE</u>		
<u>A40.0 DISPUTE SETTLEMENT</u>		
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
<u>SUBSTITUTE PROVISIONS</u>		
<u>A41.0 STATE CLAUSES</u>		
40	<p>Clause 41.0</p>	Item
<u>CONTRACT VARIABLES</u>		
<u>A42.0 THE SCHEDULE (DPW-04EC)</u>		
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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<u>SECTION B: JBCC PRELIMINARIES</u>		
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
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
<u>B2.0 DOCUMENTS</u>		
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
<u>B3.0 THE SITE</u>		
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
<u>B4.0 MANAGEMENT OF CONTRACT</u>		
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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<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
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
<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
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
<u>B7.0 TEMPORARY SERVICES</u>		
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
<u>B8.0 PRIME COST AMOUNTS</u>		
80	B8.1 Responsibility for prime cost amounts	Item
<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
81	B9.1 General Attendance	Item
82	B9.2 Special Attendance	Item
83	B9.3 Commissioning - fuel, water and electricity	Item
<u>B10.0 FINANCIAL ASPECTS</u>		
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
	<u>B11.0 GENERAL</u>	
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
	<u>B1.0 DEFINITIONS AND INTERPRETATION</u>	
	<u>B12.1 Schedule of Variables</u>	
	<u>12.1 PRE-TENDER INFORMATION</u>	
	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: The work to be executed is confined to the buildings and sites Mount Ayliff Labour Centre	
	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:	
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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.

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

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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.

12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent

12.1.24 Environmental disturbance [11.6] Specific requirements: 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.

12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries [10.2] Option A (prorated) (Yes/No)
Yes Option B (calculated) (Yes/No)

12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (Yes/No) Yes Option B (detailed breakdown) (Yes/No)

12.2.3 Additional agreed preliminaries items Details: Not applicable

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

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

C1 CONTRACT DRAWINGS

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.

Item

C2 GENERAL PREAMBLES

101 The document 'Specification of Materials and Methods to be used (PW371)' is obtainable on the Department's website (<http://www.publicworks.gov.za/> under 'Consultants Guidelines), and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used

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<u>C3 TRADE NAMES</u>		
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	Item
<u>C4 IMPORTED MATERIALS AND EQUIPMENT</u>		
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
<u>C5 VIEWING THE SITE IN SECURITY AREAS</u>		
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
<u>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</u>		
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
<u>C7 ENTRANCE PERMITS TO SECURITY AREAS</u>		
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
<u>C8 SECURITY CHECK OF PERSONNEL</u>		
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
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	<u>C9 PROHIBITION ON TAKING OF PHOTOGRAPHS</u>	
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
	<u>C10 HIV/AIDS AWARENESS</u>	
	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The contractor must take note that compliance with the HIV/AIDS Specification is compulsory.	
	In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment	
	<u>C10.1 AWARENESS CHAMPION</u>	
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
	<u>C10.2 AWARENESS WORKSHOPS</u>	
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
	<u>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</u>	
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
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		Amount
<u>C10.4 ACCESS TO CONDOMS</u>		
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
<u>C10.5 MONITORING</u>		
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
<u>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</u>		
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 & 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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PRELIMINARIES

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Section No. 1
SECTION SUMMARY

SECTION NO. 2
DEMOLITIONS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>DEMOLITIONS</u> <u>BILL NO. 1</u> <u>DEMOLITIONS</u></p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p><u>View site</u></p>				
<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 demolitions. 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>				
<p><u>Explosives</u></p>				
<p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p>				
<p><u>General</u></p>				
<p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to 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>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 2km to store and handed over to the employer</p>				
<p><u>HOARDING</u></p>				
<p>1 Provide, fix and maintain in position as required and remove as at when directed a temporary hoarding 2m high with shaded cloth over wire mesh, fixed to and including 100mm diameter gum pole at 3500mm centres, in concrete footing, as barriers, screens, etc. that will be necessary when carrying out the work for the protection of persons and completed structures while the work is in progress.</p>	m	350		
<p>Section No. 2 Bill No. 1 Demolitions</p>				
<p>Carried to Collection</p>				
			R	

	Unit	Quantity	Rate	Amount
<u>DEMOLITION AND REMOVAL</u>				
2				
<p>Double storey storey building, 50 x 8m on plan and 6m high at eaves, comprising reinforced concrete surface bed, reinforced suspended slab 220mm external walls, 110mm internal walls, roof covering of corrugated sheets and trusses, all rubbles to be cart away 10k away from from site. Note: The following items are to remain the property of the employer and are to be carefully taken out, temporarily stored, transported over a distance of approximately 800m to store and handed over to the employer: 1. window frames 2. Roof Covering 3. Door frames</p>				
	No	2		
3				
<p>excavation and removal of reinforced strip foundation to double storey building size 50m x 8m, exceeding 1.5m deep but not exceeding 2.0m deep and remove all rubbles away from site and fill strips and compact.</p>				
	No	2		
Carried to Collection				
Section No. 2				
Bill No. 1				
Demolitions				
			R	

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BILL NO. 1
DEMOLITIONS
COLLECTION

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Section No. 2
Bill No. 1
Demolitions

Amount

SECTION NO. 2

DEMOLITIONS

SECTION SUMMARY

Bill No.

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DEMOLITIONS

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Section No. 2
SECTION SUMMARY

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SECTION NO. 3
BUILDING WORKS

	Unit	Quantity	Rate	Amount
<p><u>Dewatering of excavations</u></p>				
<p>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</p>				
<p><u>Density testing on filling</u></p>				
<p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved</p>				
<p>When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.</p>				
<p>Section No. 3 Bill No. 1 Earthworks</p>				
<p>Carried to Collection</p>				
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BILL NO. 1
EARTHWORKS
COLLECTION

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Section No. 3
Bill No. 1
Earthworks

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>PREAMBL ES</u>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"				
<u>SUPPLEM ENTARY PREAMBL ES</u>				
<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>				
Propriet ary product s shall be used as specifie d. Substit ute product s				
<u>Cost of tests</u>				
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)				
<u>CPAP WORK GROUP</u>				
Unless otherwi se stated all items in this bill will be Work Group 110.				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>10MPa/19mm concrete in</u>				
1				
	m ³	19		
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete in</u>				
2				
	m ³	8		
<u>REINFORCED CONCRETE</u>				
<u>30MPa/19mm concrete in</u>				
3				
	m ³	121		
			Carried to Collection	
			R	
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
4	m ³	113		
5	m ³	12		
6	m ³	262		
7	m ³	41		
8	m ³	6		
9	m ³	6		
<u>CONCRETE TESTING</u>				
10	No	15		
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a power float</u>				
11	m ²	1 960		
12	m ²	27		
13	m ²	137		
14	m ²	42		
<u>FORMWORK</u>				
<u>(CPAP Work Group No. 111 Unless Otherwise Stated)</u>				
<u>Rough Formwork (Degree Of Accuracy II) To:</u>				
15	m ²	1 470		
16	m ²	137		
17	m ²	29		
18	m	545		
<u>MOVEMENT JOINTS, ETC</u>				
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick/concrete surfaces</u>				
19	m	1 544		
<u>Saw-cut joints:</u>				
20	m	380		
Carried to Collection				
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			R	

THE CONSTRUCTION OF KWAMASHU COMMUNITY
RESIDENTIAL UNITS (BLOCK A & B)

PART A
REF:1H-23577

	Unit	Quantity	Rate	Amount
<u>Sundries</u>				
21	m	380		
<u>REINFORCEMENT (PROVISIONAL)</u>				
22	Tonnes	54.30		
<u>Fabric reinforcement</u>				
23	m ²	17		
24	m ²	13		
Carried to Collection				
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Concrete, Formwork And Reinforcement				
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CONCRETE, FORMWORK AND REINFORCEMENT

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Section No. 3

Bill No. 2

Concrete, Formwork And Reinforcement

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	Unit	Quantity	Rate	Amount
<u>BRICKWORKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in cement mortar:</u>				
2	m ²	1 916		
3	m ²	1 803		
4	m ²	48		
5	m ²	24		
6	m ³	199		
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement:</u>				
7	m	9 013		
8	m	9 578		
<u>Galvanised hoop iron cramps, ties, etc:</u>				
9	No	133		
<u>Air bricks, etc:</u>				
10	No	272		
<u>Wall bonding ties</u>				
11	No	32		
12	No	32		
<u>MOVEMENT JOINTS</u>				
<u>Joint forming material in movement joints</u>				
13	m ²	192		
Carried to Collection				
Section No. 3				
Bill No. 3				
Masonry				
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MASONRY
COLLECTION

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Section No. 3
Bill No. 3
Masonry

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
BUILDING WORKS				
BILL NO. 4				
WATERPROOFING				
PREAMBLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"				
SUPPLEMENTARY PREAMBLES				
Proprietary products in descriptions				
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.				
CPAP WORK GROUP 120				
Unless otherwise stated all items in this bill will be Work Group 120.				
WATERPROOFING TO ROOFS, ETC.				
4mm Thick Derbigum SP Waterproofing Membrane Including Laps, Turn-ups, Turn-down etc. and preparing and priming concrete or screeded surfaces				
1		On flat roofs to falls including dressing into and sealing outlets, turning up or down at ends and torch sealing with splayed ends exceeding 300mm	m ²	96
2		Seal edge of waterproofing to walls, etc. with mastic bead.	m	56
3		Dress waterproofing through 170 x 170mm opening in brickwork.	No	4
4		Apply two coats acrylic roof paint on waterproof membrane	m ²	96
DAMP-PROOFING OF WALLS AND FLOORS				
One layer of 375 micron embossed damp proof course				
5		In walls.	m ²	192
One layer of 250 micron USB green or similar approved waterproof sheeting sealed at laps with pressure sensitive tape				
6		Under surface beds.	m ²	387
Carried to Collection				
Section No. 3				
Bill No. 4				
Waterproofing				
			R	

	Unit	Quantity	Rate	Amount
<u>JOINT SEALANTS, ETC</u>				
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
7				
	m	750		
<u>Clear silicone sealant</u>				
8				
	m	1 428		
Carried to Collection				
Section No. 3				
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Waterproofing				
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BILL NO. 4
WATERPROOFING
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Section No. 3
Bill No. 4
Waterproofing

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS</u>				
PREAM BLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions</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>Fixing</u>				
Fixing shall be done according to SABS 1200HB with minimum 225mm end laps				
<u>Guarantee</u>				
The contractor 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.				
<u>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 124.				
<u>STEEL ROOF SHEETING AND ACCESSORIES</u>				
<u>0.53 roof sheets and 0.53mm thick accessories, with polyclosers where necessary, both with classicoat finish on one side and standard grey backing coat on the other side, fixed to timber or steel purlins in accordance with the manufacturers instructions:</u>				
1	m ²	634		
<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>				
<u>0,8mm Thick galvanised pressed steel fittings with classicoat finish on one side:</u>				
2	m	200		
3	m	200		
			Carried to Collection	R
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Bill No. 5				
Roof Coverings				

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BILL NO. 5

ROOF COVERINGS

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Section No. 3
Bill No. 5
Roof Coverings

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u></p> <p>PREAMBLES For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - P W371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>CARPENTRY</u> <u>Proprietary products in descriptions</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</p> <p><u>Roof trusses</u> 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.</p> <p><u>Joinery</u> 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</p> <p><u>Fixing</u> 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</p> <p><u>CPAP WORK GROUP</u> Unless otherwise stated all items in this bill will be Work Group 126.</p>				
<p>Section No. 3 Bill No. 6 Carpentry And Joinery</p>			<p>Carried to Collection</p>	<p>R</p>

BILL NO. 6
CARPENTRY AND JOINERY
COLLECTION

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Amount

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Section No. 3
Bill No. 6
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
BUILDING WORKS				
BILL NO. 7				
CEILINGS PARTITIONS AND ACCESS FLOORING				
PREAMBLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
SUPPLEMENTARY PREAMBLES				
Proprietary products in descriptions				
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				
Descriptions				
Items described as 'naile' shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
CPAP WORK GROUP				
Unless otherwise stated all items in this bill will be Work Group 129				
CEILINGS, ETC				
NAILED UP CEILINGS				
12,5mm Gypsum flush plastered ceiling or similar approved, fixed below rafters				
1		Slopy Ceilings including 38 x 50mm sawn softwood branderling at not exceeding 400m centres in one direction	m ²	376
2		Extra over ceiling for opening for 650 x 650mm trap door complete with trimmers, board, hinges, etc as described (Provisional). frame, cross branders, ceiling	No	12
Rhino Gypsum plasterboard cornice or similar approved				
3		75mm Coved cornices	m	1 696
Carried To Section Summary				
Section No. 3				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			R	

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 8</u>				
<u>IRONMONGERY</u>				
PREAMBLES				
for Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".				
<u>SUPPLEMENTARY PREAMBL ES</u>				
<u>Proprietary products in descriptions</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>Fixing</u>				
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.				
<u>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 132.				
<u>HINGES, BOLTS, ETC</u>				
1	Pairs	160		
13mm Brass hinge with nylon washers				
<u>LOCKS</u>				
2	No	160		
3-lever upright mortice lockset with Protea handle with back plate and with keep to timber door frame.				
<u>Sundries:</u>				
3	No	160		
Rubber door stop plugged and screwed to wall or floor				
<u>HANDLES</u>				
<u>Handles.</u>				
4	No	160		
Anodised aluminium pull handle on 150 x 150mm backplate				
<u>BATHROOM FITTINGS</u>				
All the following fittings are to be to the approval of the Principal Agent.				
			Carried to Collection	
Section No. 3				
Bill No. 8				
Ironmongery				
			R	

	Unit	Quantity	Rate	Amount
Prices are to include for plugging and screwing with chromium plated semi-raised head countersunk screws or bolted to walls and for making good to all finishes.				
5	No	48		
600 x 19 mm Diameter chrome plated towel rail Solid 260/E40 or equal and approved with chrome plated flange brackets fixed to wall, plugged and screwed with chromium plated screws to Architects approval.				
<u>Sundries</u>				
6	No	48		
paper towel dispenser , plugged				
7	No	48		
Soap dish holder plugged to wall				
<u>manufactured signage fixed in accordance with manufacturers recommendations</u>				
<u>Wall signs, Post signs, illuminated signage, etc.</u>				
<u>Note: All illuminated white lettering to be Perspex</u>				
8	No	48		
4 m x 650 mm x 150 mm Deep illuminated sign in white numbers (1-48) 400mm high				
<u>All associated fire signage to be Photoluminescent type (Glow in the dark) silkscreened on 1 mm ABS to conform and be in accordance with specification No. 1186. All signage to be installed by signage sub-contractor, exact positioning to be finalised on site with the Architect.</u>				
9	No	16		
Fire hose reel sign and fire extinguisher sign with arrow pointing the direction size 290 x 878 plugged and screwed to wall with 4 x 5 mm diameter stainless steel dome-capped screws.				
Carried to Collection				
Section No. 3				
Bill No. 8				
Ironmongery				
			R	

BILL NO. 8
IRONMONGERY
COLLECTION

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Section No. 3
Bill No. 8
Ironmongery

	Unit	Quantity	Rate	Amount
<p><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></p>				
2	No	48		
<p><u>ALUMINIUM WINDOWS</u></p> <p>Windows are to be factory-glazed with 6mm safety glass in accordance with AAAMSA guidelines and specifications and part N of SANS 10400 and 204 of part XA and fitted with all necessary PVC or neoprene glazing gaskets, aluminium glazing beads, weather seals, etc., in accordance with the manufacturers standard details.</p> <p>The frames are to be formed perfectly flat on all faces, truly square and properly jointed at angles and intersections.</p> <p>Open out section hinges to be stainless steel, adjustable friction type with drop down mechanism for easy cleaning. Approved handles are to be black with black screws and rivets.</p> <p>The sight lines are to be the same throughout each window of the same type.</p> <p>All frames are to be fitted with standard fixing lugs spaced one near each corner and not exceeding 450mm apart intermediately all round frame.</p> <p>The windows are to be protected with plastic sheeting held in position with non-staining adhesive tape capable of easy stripping.</p> <p>Prices for windows are to include for assembling the component parts, setting up in position and plugging and screwing fixing lugs to concrete, oiling and easing all opening sections, protecting from damage and cleaning down and leaving in perfect condition at completion.</p> <p><u>Purpose made powder coated aluminium windows, glazed as scheduled and factory fitted with 12mm burglar bars (painted in C3-7 oxide) to all opening sections:</u></p>				
3	No	72		
4	No	48		
5	No	32		
Carried to Collection				
Section No. 3				
Bill No. 9				
Metalwork				
			R	

	Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL HANDRAILS</u>				
<u>Welded handrails to:</u>				
6				
50mm diameter in continuous lengths pipe rails 1000m high and bolted to concrete floor	m	224		
7				
Extra over for rounded end	No	45		
8				
Extra over for rounded closed end	No	40		
<u>GALVANISED STEEL BALUSTRADING</u>				
<u>Welded balustrading to stairs</u>				
9				
Horizontal balustrading 1000mm high, of 25mm external diameter x 50mm thick continuous pipe hand rail, footplates bolted to concrete, intermediate vertical balusters at 125mm centres between top and bottom rails (As per Architect schedules or specification)	m	112		
Carried to Collection				
Section No. 3				
Bill No. 9				
Metalwork				
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BILL NO. 9
METALWORK
COLLECTION

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Section No. 3
Bill No. 9
Metalwork

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 10</u>				
<u>PLASTERING</u>				
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".				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions</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>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 142.				
<u>SCREEDS</u>				
<u>Screeds on concrete</u>				
1	m ²	1 504		
2	m ²	60		
<u>GRANOLITHIC</u>				
<u>Untinted granolithic on concrete:</u>				
3	m ²	456		
4	m ²	123		
<u>PLASTERING ON WALLS</u>				
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork</u>				
5	m ²	3 605		
6	m ²	200		
<u>Cement plaster on concrete:</u>				
7	m ²	1 128		
			Carried to Collection	R
Section No. 3				
Bill No. 10				
Plastering				

	Unit	Quantity	Rate	Amount
<u>EXTERNAL PLASTER</u>				
<u>Cement plaster on brickwork</u>				
8	m ²	1 916		
9	m ²	55		
Carried to Collection				
			R	

Section No. 3
Bill No. 10
Plastering

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BILL NO. 10
PLASTERING
COLLECTION

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Section No. 3
Bill No. 10
Plastering

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>				
<p><u>BUILDING WORKS</u></p>				
<p><u>BILL NO. 12</u></p>				
<p><u>PLUMBING AND DRAINAGE</u></p>				
<p>PREAMBLES</p>				
<p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p><u>Proprietary products in descriptions</u></p>				
<p>proprietary products shall be used as specified.</p>				
<p>Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>				
<p><u>Fixing</u></p>				
<p>Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.</p>				
<p>Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.</p>				
<p><u>Chasing</u></p>				
<p>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.</p>				
<p><u>Stainless steel sanitary fittings</u></p>				
<p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p>				
<p><u>Waste unions</u></p>				
<p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p>				
<p><u>PLUMBING</u></p>				
<p><u>CPAP WORK GROUP</u></p>				
<p>Unless otherwise stated all items in this bill will be Work Group 148.</p>				
<p>Section No. 3 Bill No. 12 Plumbing And Drainage</p>				
<p style="text-align: right;">Carried to Collection</p>				
<p style="text-align: right;">R</p>				

		Unit	Quantity	Rate	Amount
11	ceramic Close coupled low level WC suite comprising white vitreous china pan with DPE A1 De Lux solid hard double flap plastic toilet seat and 9 litre front single flush (code 710533) cistern with flush pipe, installed complete	No	48		
12	1000 x 1000 x 150mm shower tray with waste outlet, bedded in position, including shower arm,rose and installed complete as per the Architects specification	No	48		
	<u>Stainless Steel</u>				
13	stainless steel single centre bowl drop-in sink size 600mm x 1200mm. Bowl size 610 x 460 x 230mm deep with overflow, manufactured in grade 304 (18/10) stainless steel.Tap to be 15mm 102CP demand bib tap. All in accordance to relative SANS	No	48		
	<u>WASTE UNIONS, ETC</u>				
14	32mm 301 CP waste union.	No	48		
15	40mm 316 CP waste union.	No	48		
	<u>TRAPS, ETC</u>				
	<u>uPVC</u>				
16	32mm 340 CP bottle trap.	No	48		
	<u>TAPS, VALVES, ETC</u>				
17	15mm 108LK RB bibcock with hose union.	No	48		
18	15mm 128 CP Star underw all pattern stopcoc k.	No	48		
19	15mm 166/041 CP Star sink mixer.	No	48		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
20	40mm Pipes.	m	352		
21	50mm Pipes.	m	99		
22	110mm Pipes.	m	144		
	<u>Extra for</u>				
23	40mm Adaptor.	No	50		
24	50mm Adaptor .	No	45		
25	50mm Reducer	No	45		
26	40mm Bend.	No	45		
27	50mm Bend.	No	50		
	Carried to Collection				R
	Section No. 3				
	Bill No. 12				
	Plumbing And Drainage				

BILL NO. 12

PLUMBING AND DRAINAGE

COLLECTION

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Section No. 3
Bill No. 12
Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>				
<p><u>BUILDING WORKS</u></p>				
<p><u>BILL NO. 13</u></p>				
<p><u>GLAZING</u></p>				
<p>PREAMBLES</p>				
<p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p>				
<p>Specification of materials and methods to be used - P</p>				
<p>W371"</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p><u>Proprietary products in descriptions</u></p>				
<p>Proprietary products shall be used as specified.</p>				
<p>Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>				
<p><u>CPAP WORK GROUP</u></p>				
<p>Unless otherwise stated all items in this bill will be Work Group 150.</p>				
<p><u>Mirrors</u></p>				
<p>1 6 mm silvered mirror size 450 x 600 mm high with rounded and polished edges all round, four times holed for fixing to wall plugged and srewed with chrome plated dome headed screws.</p>	No	48		
<p>Section No. 3 Bill No. 13 Glazing</p>				
<p>Carried To Section Summary</p>				R
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 14</u>				
<u>PAINTWORK</u>				
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".				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions</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>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 152.				
<u>PAINTWORK, ETC</u>				
<u>ON FLOATED PLASTER</u>				
<u>Prepare and apply one coat plaster primer and two coats of acrylic PVA paint</u>				
1	m ²	5 521		
2	m ²	1 128		
<u>ON FIBRE- CEMENT</u>				
<u>Prepare and apply one coat sealer/undercoat and two coats of Acrylic PVA paint</u>				
3	m ²	180		
<u>ON PLASTERBOARD</u>				
4	m ²	376		
<u>ON METAL</u>				
<u>Prepare and apply one coat zinc chromate metal primer, one coat universal undercoat and two coats of polyurethane velvet enamel paint</u>				
5	m	336		
			Carried to Collection	R
Section No. 3				
Bill No. 14				
Paintwork				

Amount

BILL NO. 14
PAINTWORK
COLLECTION

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Section No. 3
Bill No. 14
Paintwork

SECTION NO. 4
ELECTRICAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL WORKS</u>				
<u>BILL NO. 2</u>				
<u>WALL POINT(PLUGS & ISOLATORS,DATA)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Switches, socket outlets, etc</u>				
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates				
<u>Wall Point</u>				
1	No	240		
2	No	96		
3	No	48		
Carried To Section Summary				R
Section No. 4				
Bill No. 2				
Wall Point(plugs & Isolators,data)				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL WORKS</u>				
<u>BILL NO. 3</u>				
<u>CABLE WAYS (SUPPLY & INSTALL)</u>				
<u>CABLE WAYS</u>				
1				
	m	133		
2				
	No	188		
Carried To Section Summary				R
Section No. 4				
Bill No. 3				
Cable Ways (supply & Install)				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL WORKS</u>				
<u>BILL NO. 4</u>				
<u>CABLES (SUPPLY, INSTALL & TERMINATE</u>				
<u>SUPPLY,INSTALL & TERMINATE</u>				
1				
10mm ² x 4 Core Cu/XLPE /ECC, cable terminated and fixed to cable supports	m	3 548		
2				
4mm ² x 2 core + earth, Cu , cable terminated and fixed to cable supports,	m	400		
3				
2,5mm ² x 2 core + earth, Cu, cable terminated and fixed to cable supports,	m	800		
4				
1,5mm ² RED , house wire install in PVC Sleeve ,cable terminated	m	1 140		
5				
1,5mm ² Black , house wire install in PVC Sleeve ,cable terminated	m	1 140		
6				
1,5mm ² Green , house wire install in PVC Sleeve ,cable terminated	m	1 140		
Carried To Section Summary				
Section No. 4				
Bill No. 4				
Cables (supply, Install & Terminate				
				R

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL WORKS</u>				
<u>BILL NO. 5</u>				
<u>LUMINARIES</u>				
<u>GENERAL LIGHTING AND POWER</u>				
<u>LUMINAIRES</u>				
<u>Supply and install:</u>				
1	A1- 11 -18 W Round LED panel 220v 4000k Recessed , down light, surface mount	No	280	
2	B1- Regent ,Aries 20 LED External IP 65 Wall Mounted Light	No	10	
3	C1- 4 ft -47 W IP65 LED 220 V Surface Mounted Light	No	48	
Carried To Section Summary				R
Section No. 4				
Bill No. 5				
Luminaries				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL WORKS</u>				
<u>BILL NO. 6</u>				
<u>CONDUITS</u>				
<u>CONDUITS</u>				
<u>Supply and install PVC conduit/Sleeve complete with all accessories including couplings, bending, fixings and waste fixed as specified</u>				
1	m	1 537		
2	m	480		
Carried To Section Summary			R	
Section No. 4				
Bill No. 6				
Conduits				

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS</u> <u>BILL NO. 11</u> <u>DISTRIBUTION BOARD/MCC & ANCILLARY REQUIREMENT</u></p>				
<p><u>DISTRIBUTION BOARDS</u> <u>Supply and install</u></p>				
<p>1 Distribution Boards as per attached drawings , PVC 6Way, 2x 10A,2 X 20A,1X 4</p>	No	48		
<p>Section No. 4 Bill No. 11 Distribution Board/mcc & Ancillary Requirement</p>				
<p>Carried To Section Summary</p>				
				R

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS</u> <u>BILL NO. 12</u> <u>DAY/NIGHT SENSORS</u> <u>DAY/NIGHT SENSORS</u></p>				
1	No	1		
<p>Install Day/night sensor in brickwork</p>				
<p>Carried To Section Summary</p>			R	
<p>Section No. 4 Bill No. 12 Day/night Sensors</p>				

SECTION NO. 5
MECHANICAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>MECHANICAL WORKS</u>				
<u>BILL NO. 1</u>				
<u>WET SERVICES</u>				
<u>WET SERVICES (COLD AND HOT WATER INSTALLATION)</u>				
<u>Supply, deliver, install and commission as per specification the following Copper Class 1 Piping for Hot & Cold Water Reticulation</u>				
1	m	893		
2	m	291		
3	m	25		
4	m	51		
<u>Copper Pipe Fittings.</u>				
5	No	200		
6	No	9		
7	No	18		
8	No	97		
9	No	116		
10	No	86		
11	No	768		
12	Lump Sum			
13	Lump Sum			
<u>Supply, deliver, install and commission as per specification the following HDPE Piping 600mm deep Trenches Class 12 Piping for COLD WATER SYSTEM.</u>				
14	m	46		
15	m	56		
			Carried to Collection	R
Section No. 5				
Bill No. 1				
Wet Services				

BILL NO. 1
WET SERVICES
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Section No. 5
Bill No. 1
Wet Services

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>MECHANICAL WORKS</u>				
<u>BILL NO. 2</u>				
<u>FIRE PROTECTION SERVICES</u>				
<u>FIRE PROTECTION SERVICES</u>				
<u>CLASS 16 HDPE PIPING & FITTINGS</u>				
1				
110mm HDPE Class 16 Fire Ring Main laid and including trenches not exceeding 800m deep.	m	29		
2				
75mm HDPE Class 16 laid and including trenches not exceeding 800m deep.	m	15		
3				
110mm x 75mm Reducing TEE (Flanged)	No	1		
4				
110mm , 90 HDPE Degree Elbow	No	1		
5				
75mm , 90 HDPE Degree Elbow	No	1		
6				
110mm , 45 HDPE Degree Elbow	No	1		
7				
75mm , 45HDPE Degree Elbow	No	1		
8				
110mm , 90 HDPE Degree Equal T-Piece	No	3		
9				
32mm , 90 HDPE Degree Equal T-Piece	No	3		
10				
32mm Adaptor HDPE Flange	No	2		
<u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings :</u>				
11				
Fire Hydrant	No	1		
12				
Horizontal Centrifugal Pump 132 l/min @ 600 kPa ELECTRIC PUMP Incl. electrical Panel	No	1		
13				
Vertical Multistage Jockey Pump 33 l/min @ 600 kPa ELECTRIC PUMP.	No	1		
14				
9000 liter Fire Water Steel Tank	No	1		
<u>Black Mild Steel Fittings</u>				
15				
25, 90 Degree Threaded Elbow	No	5		
16				
32mm - 25, Reducer Threaded	No	8		
17				
25mm steel Union	No	8		
18				
25mm Isolation valve	No	8		
19				
25mm Pipes	m	75		
Carried to Collection				
Section No. 5				
Bill No. 2				
Fire Protection Services				
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BILL NO. 2

FIRE PROTECTION SERVICES

COLLECTION

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Bill No. 2
Fire Protection Services

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SECTION NO. 5

MECHANICAL WORKS

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Bill No.

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- 2 FIRE PROTECTION SERVICES

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Section No. 5
SECTION SUMMARY

SECTION NO. 6

EXTERNAL WORKS (Provisional)

	Unit	Quantity	Rate	Amount
SECTION NO. 6				
EXTERNAL WORKS (Provisional)				
BILL NO. 1				
External Works (Provisional)				
PREAMBLES				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371".				
CPAP WORK GROUP				
Unless otherwise stated all items in this bill will be Work Group 104.				
SITE CLEARANCE ETC				
<u>Allow for clearing of site of all vegetable matter, rubbish,etc.including small trees having a circumference of less than 200mm measured at a height of 1000mm above ground level, that may be encountered and roughly level site to be built upon and carting away any debris to a site to be found by the contractor.(Labour intensive).</u>				
1	Site Clearance	m ²	1 382	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	1 382	
BULK EXCAVATION, FILLING, ETC				
<u>Open face excavation in earth over sloping site:</u>				
3	Excavate for platforms.	m ³	1 328	
<u>Extra over bulk excavations in earth for excavation in:</u>				
4	Soft rock	m ³	133	
5	Hard rock	m ³	66	
<u>Keeping excavations free of water:</u>				
6	Keeping excavations free of all water other than subterranean water	Item		
<u>Risk of collapse of excavations:</u>				
7	Sides of bulk excavations not exceeding 1,5m deep	m ²	47	
<u>Extra only over all bulk excavations for loading and carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	818	
	Carried to Collection			R
Section No. 6				
Bill No. 1				
External Works (provisional)				

Amount

BILL NO. 1

External Works (Provisional)

COLLECTION

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Bill No. 1

External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 6</u>				
<u>EXTERNAL WORKS (Provisional)</u>				
<u>BILL NO. 3</u>				
<u>Drainage (Provisional)</u>				
NOTE:				
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item.				
For Preambles refer to 'Department of Public Works: Specification of materials and methods to be use-PW371				
<u>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 146.				
<u>STORMWATER CHANNELS</u>				
<u>REINFORCED CONCRETE</u>				
<u>20MPa/19mm concrete:</u>				
1		V-shaped channel 900mm wide x average 130mm thick reinforced with and including Type 193 fabric reinforcement, with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 1850mm long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 12mm and filled with two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc and including all necessary excavation, formwork, filling, etc	m	80
2		Extra for angles, intersections, ends, dressing into sides of catchpits, etc	No	7
<u>STORMWATER DRAINAGE</u>				
3		350mm Pipes laid in and including trenches exceeding 1m not exceeding 2m deep	m	58
<u>Sundries:</u>				
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
4		Soft rock	m ³	8
5		Hard rock	m ³	4
Carried to Collection			R	
Section No. 6				
Bill No. 3				
Drainage (provisional)				

	Unit	Quantity	Rate	Amount
<u>SOIL AND WASTE WATER DRAINAGE</u>				
<u>uPVC pipes Class 34 for use under ground in accordance with SANS 791 - 1994 with uPVC couplings</u>				
<u>(All excavations to be labour intensive.)</u>				
17	m	132		
160mm Pipes laid in and including trenches not exceeding 1000mm deep.				
<u>Extra for</u>				
18	No	12		
160mm Bend				
19	No	10		
160mm Access bend.				
20	No	4		
160mm Tee-junction.				
21	No	2		
160mm Access junction.				
<u>Gulleys, etc.</u>				
22	No	6		
110mm Diameter PVC dished gulley, complete with necessary pipe, head, trap, gulley surround, etc. not exceeding 1m deep				
<u>Sundries:</u>				
23	m ³	55		
Extra only over selected earth filling from the excavation in filling under, around and over pipes in ground to a depth of 300mm above top of pipes for supplying and carting on fine granular filling to the approval of the Principal Agent.				
24	m	10		
Cement concrete (20MPa) in lining of a minimum thickness of 150mm all round 110mm diameter PVC horizontal piping including formwork				
25	No	3		
Cast cement concrete (20MPa) block size 300 x 300 x 50mm thick finished smooth on top and all edges with 2-1 cement render with angles rounded and with sunk letters 'I.E' formed in top and setting in position over cleaning eye including necessary excavation.				
26	No	3		
Cast iron cleaning cover and frame, the frame jointed to top of 160mm diameter PVC pipe, groove for and fitted with stopper with raised letters 'C.E.' cast on, bedded in tallow and secured to frame with two gunmetal screws and encased in cement concrete (20MPa) surround size 375 x 375mm and finished with 3-1 cement render with angles rounded including formwork.				
27	Item			
Break into existing manhole and make connections to 160mm diameter pipe				
			R	
Carried to Collection				
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Bill No. 3				
Drainage (provisional)				

THE CONSTRUCTION OF KWAMASHU COMMUNITY
RESIDENTIAL UNITS (BLOCK A & B)

PART A
REF:1H-23577

	Unit	Quantity	Rate	Amount
<p><u>TESTING</u></p>				
<p><u>Testing:</u></p>				
<p>28 Allow for testing the whole surface water channels and soil and waste water drainage to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect.</p>	Item			
<p>Section No. 6 Bill No. 3 Drainage (provisional)</p>				
<p>Carried to Collection</p>				
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BILL NO. 3
Drainage (Provisional)
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Section No. 6
Bill No. 3
Drainage (provisional)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 6</u>				
<u>EXTERNAL WORKS (Provisional)</u>				
<u>BILL NO. 4</u>				
<u>Landscaping (Provisional)</u>				
<u>GRASS PLANTING, ETC</u>				
<u>LANDSCAPING</u>				
<u>Ground preparation</u>				
1				
	m ²	89		
<u>Topsoil, compost, lime and fertilizer</u>				
2				
	m ²	89		
<p>Grass Grass is to be approved local fine indigenous grass unless otherwise described</p> <p>The areas to receive grass are to be weeded and raked free of stones and all depressions left by the excavator are to be filled in with approved topsoil. The planting of the grass is to be carried out in sections as will be instructed by the Principal Agent until the entire area has been planted.</p> <p>Immediately each section has been grassed it is to be thoroughly watered and rolled. Should any shifting or piling up of topsoil due to wind or any other such piling up of soil against newly planted grass take place, the soil must immediately be raked level and rolled.</p>				
			Carried to Collection	
Section No. 6				
Bill No. 4				
Landscaping (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>Turfing</u>				
-				
<u>Turfing is to be carried out with approved local indigenous grass sods measuring about 250 x 250 x 100mm thick. They are to be set in position, pummelled flat with a timber pummel and all cavities filled in with topsoil and the whole are top dressed on completion with approved topsoil supplied by the Contractor. The drains are to be carefully trimmed or dressed to an even surface and all depressions are to be filled in with approved topsoil.</u>				
<u>Supervision</u>				
<u>Supervision of workers planting grass is to be undertaken by a fulltime Supervisor to the approval of the Principal Agent.</u>				
<u>Watering, Weeding and Rolling</u>				
<u>The entire areas grassed or sodded are to be weeded and kept thoroughly watered and rolled throughout the period of the contract and for the maintenance period.</u>				
<u>Mowing of Grass During Maintenance Period</u>				
<u>The Contractor will be responsible for the mowing of grass and must allow for this in his prices.</u>				
<u>Grass planting, etc:</u>				
3	Kikuyu instant lawn grass laid within twenty four hours.	m ²	89	
<u>Top dressing and rolling</u>				
4	Supplying and applying top dressing fertiliser broadcast evenly at the rate of 10-15g/m2.	m ²	89	
<u>Maintenance of grassed areas</u>				
5	Allow for watering, rolling and cutting of grass on the entire grassed area for the duration of the maintenance period	m ²	89	
Carried to Collection				
Section No. 6				
Bill No. 4				
Landscaping (provisional)				
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BILL NO. 4

Landscaping (Provisional)

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Section No. 6

Bill No. 4

Landscaping (provisional)

	Unit	Quantity	Rate	Amount
<p><u>Selected granular C4 filling material supplied and carted onto the site by the Contractor and having a plasticity index of less than 12, deposited in layers not exceeding 125mm thick after compaction, compacted to a density of 97% Modified AASHTO maximum density:</u></p>				
6	In base course filling under roads and walkway interlocking paving.	m ³	287	
<p><u>Prescribed density tests on filling:</u></p>				
7	Allow for the execution of all prescribed density tests on filling, etc., as pointed out by Principal Agent on site	No	12	
<p><u>Weed killer:</u></p>				
8	'Weedmaster Turfmaster' or other approved weed and grass killer applied to ground under precast concrete pavings	m ²	1 913	
<p><u>Soil poisoning applied by a registered pest control company and guaranteed against termite infestation for five years</u></p>				
9	Antproofing ground under precast concrete pavings.	m ²	287	
<p><u>CONCRETE</u></p>				
<p><u>Unreinforced Concrete</u></p>				
<p><u>20 MPa/19 mm concrete in:</u></p>				
10	Kerb channeling, etc.	m ³	70	
11	Edge beam size 300 x 450mm high including all necessary excavation, formwork, etc.	m	580	
<p><u>CONCRETE TESTING</u></p>				
<p><u>Concrete test cubes:</u></p>				
12	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract.	No	3	
<p><u>CONCRETE SUNDRIES</u></p>				
<p><u>Finishing top of concrete smooth with a Class U2 Wood Float Finish:</u></p>				
13	Kerb channel.	m ²	174	
			Carried to Collection	R
Section No. 6				
Bill No. 5				
Roads & Walkway (provisional)				

	Unit	Quantity	Rate	Amount
<u>PRECAST CONCRETE KERBS</u>				
<u>Precast Concrete Kerbs:</u>				
18				
150 x 250mm Barrier kerb as SABS Specification 927 Fig. 4, in approximately 1000mm lengths, bedded, jointed and pointed including unreinforced 3:1 sand cement bedding size 350 x 100mm thick under 100 x 100 x 180mm high unreinforced concrete Class B haunching behind, including necessary excavation.	m	580		
19				
Ditto circular on plan.	m	7		
20				
175 x 300mm Mountable kerb as SABS Specification 927 Fig. 8B, in approximately 1000mm lengths, bedded, jointed and pointed including unreinforced 3:1 sand cement bedding and bedding as per mountable kerb haunching detail, including necessary excavation.	m	22		
21				
Ditto circular on plan.	m	2		
22				
75 x 150mm Edging kerb as SABS Specification 927 Fig. 4, in approximately 1000m	m	26		
23				
Ditto circular on plan.	m	4		
<u>ASPHALT BASE AND SURFACING</u>				
24				
Tack coat of 30% stable-grade emulsion, with Asphalt base (A-E1 binder, continuously graded using 28mm max size grade) and Asphalt surfacing (A-E1 binder, continuously graded medium grade) and sealed	m ²	1 678		
<u>PAINTWORK</u>				
<u>Prepare and apply one coat white roadmarking paint to SABS 731:</u>				
25				
In lines 100mm wide on precast concrete pavings	m	40		
26				
Disabled sign or motiff maximum 1,4m high extreme	No	3		
27				
Road warning sign	No	7		
Carried to Collection				
Section No. 6				
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Roads & Walkway (provisional)				
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BILL NO. 5

Roads & Walkway (Provisional)

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Bill No. 5

Roads & Walkway (provisional)

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SECTION NO. 6

EXTERNAL WORKS (Provisional)

SECTION SUMMARY

Bill No.

- 1 External Works (Provisional)
- 2 Water Supplies
- 3 Drainage (Provisional)
- 4 Landscaping (Provisional)
- 5 Roads & Walkway (Provisional)

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Section No. 6
SECTION SUMMARY

SECTION NO. 7
PROVISIONAL SUMS

Amount

SECTION NO. 7
PROVISIONAL SUMS

COMMUNITY LIAISON OFFICER

The following Nominated Sub-Contract Amounts Are For Work To Be Carried Out By Sub-Contractors:

- 1 Provide the sum of R 182 880.00 (One Hundred and Eighty Two Thousand, Eight Hundred and Eighty Rands)for Employment of Community Liaison Officer as per C3.6 Social and Economic deliverables item L2.0.
- 2 Allow for general attendance on above item.
- 3 Allow for profit if required.

Item
Item
Item

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Section No. 7
Bill No. 1
Provisional Sums

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3	BUILDING WORKS	3-45	
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5	MECHANICAL WORKS	5-8	
6	EXTERNAL WORKS (Provisional)	6-19	
7	PROVISIONAL SUMS	7-2	
	ADD: CONTINGENCIES		
	Allow the sum of R 700 000.00 (Seven Hundred Thousand Rand) for Contingencies to be used or deducted in full at the Representative/Agent's discretion.		700 000 00
	ADD:ESCALATION		
	Provide the sum of R1 000 000.00(One Million Rand) for Building cost Escalation to be adjusted in terms of the JBCC Contract Price Adjustment Provision		
	SubTotal excluding Value Added Tax		
	ADD VAT @ 15%:		
	Carried to Tender		R
	FINAL SUMMARY		