

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 1 PRELIMINARIES</u></b></p>			
<p><b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b></p>			
<p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p>			
<p><b><u>PRELIMINARIES</u></b></p>			
<p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p>			
<p><b><u>PRICING OF PRELIMINARIES</u></b></p>			
<p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p>			
<p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p>			
<p><b><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></b></p>			
<p><b><u>DEFINITIONS</u></b></p>			
<p><b>A1.0 DEFINITIONS AND INTERPRETATION</b></p>			
<p>Clause 1.0</p>			
<p>Clause 1.1 Definition of "<b>Commencement Date</b>" is added:</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 1 Bill No. 1 Preliminaries</p>			
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Brought Forward		R	
<p>"<b>COMMENCEMENT DATE</b>" means the date that the <b>agreement</b>, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "<b>Construction Period</b>" is amended by replacing it with the following:</p> <p>"<b>CONSTRUCTION PERIOD</b>" means the period commencing on the <b>commencement date</b> and ending on the date of <b>practical completion</b></p> <p>Clause 1.1 Definition of "<b>Interest</b>" is amended by replacing it with the following:</p> <p>"<b>INTEREST</b>" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:</p> <p>(a) in respect of interest owed by the <b>employer</b>, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the <b>employer</b>, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.</p> <p>Clause 1.6.4 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
<p><u>OBJECTIVE AND PREPARATION</u></p> <p><b>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</b></p> <p>Clause 2.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	

**Brought Forward**

R

**A3.0 DOCUMENTS**

Clause 3.0

Clause 3.7 is amended by the addition of the following:

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A4.0 DESIGN RESPONSIBILITY**

Clause 4.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A5.0 EMPLOYER'S AGENTS**

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A6.0 SITE REPRESENTATIVE**

Clause 6.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward

R

1 A7.0 **COMPLIANCE WITH REGULATIONS**

Clause 7.0

Note: The provisions herein include *inter alia*, compliance 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), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor

See also clause C10 of Section C - Specific Preliminaries

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

A8.0 **WORKS RISK**

Clause 8.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

A9.0 **INDEMNITIES**

Clause 9.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

A10.0 **WORKS INSURANCES**

Clause 10.0

Clause 10.0 is amended by the addition of the following clauses:

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward

R

**10.5 Damage to the Works**

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
  
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
  
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material 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 neglect of any person for whose actions the **employer** is legally liable

Carried Forward

R

Section No. 1  
 Bill No. 1  
 Preliminaries

**Brought Forward**

R

- (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 neglect 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 and will remain adequately insured or insured 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**

**Carried Forward**

R

Section No. 1  
 Bill No. 1  
 Preliminaries

Brought Forward

R

**10.7 High risk insurance**

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

**10.7.1 Damage to the works**

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

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

**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

Carried Forward

R

Section No. 1  
 Bill No. 1  
 Preliminaries

Brought Forward		R	
<p>The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p>			
<p><b>10.7.3</b> It is the responsibility of the <b>contractor</b> 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 <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall, within twenty one (21) <b>calendar days</b> of the <b>commencement date</b> but before commencement of the <b>works</b>, submit to the <b>employer</b> proof of such insurance policy, if requested to do so</p>			
<p><b>10.7.4</b> The <b>employer</b> shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the <b>contractor's</b> 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 <b>contractor</b> or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the <b>employer</b> and the <b>contractor</b> and for this purpose all these contracts shall be considered one indivisible whole</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p><b>A11.0 LIABILITY INSURANCES</b></p>			
<p>Clause 11.0</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p><b>A12.0 EFFECTING INSURANCES</b></p>			
<p>Clause 12.0</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p><b>A13.0 No clause</b></p>	Item		
<p><b>Carried Forward</b></p>		R	
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

Brought Forward	R
<p>A14.0 <b>SECURITY</b></p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a <b>contract sum</b> up to R1 million, the <b>security</b> to be submitted by the <b>contractor</b> to the <b>employer</b> will be as a payment reduction of five per cent (5%) of the value certified in the <b>payment certificate</b> (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The <b>employer</b> shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the <b>employer</b> complies with the provisions of 33.4 in which event the <b>employer's</b> entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the <b>contractor</b></p> <p>14.2 In respect of contracts with a <b>contract sum</b> above R1 million, the <b>contractor</b> shall have the right to select the <b>security</b> to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the <b>schedule</b>. Such <b>security</b> shall be provided to the <b>employer</b> within twenty one (21) <b>calendar days</b> from <b>commencement date</b>. Should the <b>contractor</b> fail to select the <b>security</b> to be provided or should the <b>contractor</b> fail to provide the <b>employer</b> with the selected <b>security</b> within twenty one (21) <b>calendar days</b> from <b>commencement date</b>, the <b>security</b> in terms of 14.7 shall be deemed to have been selected.</p> <p>14.3 Where <b>security</b> as a cash deposit of ten per cent (10%) of the <b>contract sum</b> (excluding VAT) has been selected:</p> <p>14.3.1 The <b>contractor</b> shall furnish the <b>employer</b> with a cash deposit equal in value to ten per cent (10%) of the <b>contract sum</b> (excluding VAT) within twenty one (21) <b>calendar days</b> from <b>commencement date</b></p>	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	R

**Brought Forward**

R

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 percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall 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

**Carried Forward**

R

Section No. 1  
 Bill No. 1  
 Preliminaries

**Brought Forward**

R

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 **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)

**Carried Forward**

R

Section No. 1  
 Bill No. 1  
 Preliminaries

Brought Forward		R	
<p>14.6.4 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where <b>security</b> as a payment reduction of ten per cent (10%) of the value certified in the <b>payment certificate</b> (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p> <p>14.7.2 The <b>employer</b> shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the <b>employer</b> complies with the provisions of 33.4 in which event the <b>employer's</b> entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the <b>contractor</b></p> <p>14.8 Payments made by the guarantor to the <b>employer</b> in terms of the fixed or variable construction guarantee shall not prejudice the rights of the <b>employer</b> or <b>contractor</b> in terms of this <b>agreement</b></p> <p>14.9 Should the <b>contractor</b> fail to furnish the <b>security</b> in terms of 14.2, the <b>employer</b>, in his sole discretion and without notification to the <b>contractor</b>, is entitled to change the <b>contractor's</b> selected form of <b>security</b> to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>EXECUTION</u></p> <p><b>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</b></p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No Clause</p>			
	Item		
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	

**Brought Forward**

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 15.1.2 and 15.1.4

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

**A16.0 ACCESS TO THE WORKS**

Clause 16.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A17.0 CONTRACT INSTRUCTIONS**

Clause 17.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A18.0 SETTING OUT OF THE WORKS**

Clause 18.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A19.0 ASSIGNMENT**

Clause 19.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**A20.0 NOMINATED SUB-CONTRACTORS**

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No Clause

Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A21.0 SELECTED SUBCONTRACTORS**

Clause 21.0

Clause 21 is amended by replacing it with:

No Clause

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A22.0 EMPLOYER'S DIRECT CONTRACTORS**

Clause 22.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS**

Clause 23.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

<b>Brought Forward</b>		<b>R</b>
<b><u>COMPLETION</u></b>		
<b>A24.0 PRACTICAL COMPLETION</b>		
Clause 24.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>A25.0 WORK'S COMPLETION</b>		
Clause 25.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>A26.0 FINAL COMPLETION</b>		
Clause 26.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>A27.0 LATENT DEFECTS LIABILITY PERIOD</b>		
Clause 27.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>A28.0 SECTIONAL COMPLETION</b>		
Clause 28.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</b>		
Clause 29.0		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>Carried Forward</b>		<b>R</b>
Section No. 1		
Bill No. 1		
Preliminaries		

Brought Forward	R
A30.0 <b>PENALTY FOR NON-COMPLETION</b>	
Clause 30.0	
Fixed: _____ Value related: _____ Time related: _____	Item
<u>PAYMENT</u>	
A31.0 <b>INTERIM PAYMENT TO THE CONTRACTOR</b>	
Clause 31.0	
Clause 31.8 is amended by replacing it with the following two alternative clauses:	
<b>Alternative A</b>	
31.8(A) Where a <b>security</b> is selected in terms of 14.1; 14.5 or 14.6, the value of the <b>works</b> in terms of 31.4.1 and <b>materials and goods</b> 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 <b>payment certificates</b> issued up to the date of <b>practical completion</b>	
31.8(A).2 Ninety seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b>	
31.8(A).3 Ninety nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 34.6	
31.8(A).4 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 34.6 except where the amount certified is in favour of the <b>employer</b> . In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b>	
<b>Alternative B</b>	
<b>Carried Forward</b>	R
Section No. 1 Bill No. 1 Preliminaries	

Brought Forward		R	
<p>31.8(B) Where <b>security</b> is a payment reduction in terms of 14.7 the value of the <b>works</b> in terms of 31.4.1 and <b>materials and goods</b> in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim <b>payment certificates</b> issued up to the date of <b>practical completion</b></p> <p>31.8(B).2 Ninety seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b></p> <p>31.8(B).3 Ninety nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 34.6 except where the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b></p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
<p><b>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</b></p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the <b>contractor</b>"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	

<b>Brought Forward</b>	R
<p><b>A33.0 RECOVERY OF EXPENSE AND LOSS</b></p> <p>Clause 33.0</p> <p>Clause 33.2 is amended by adding the following clauses:</p> <p>33.2.9 the <b>contractor's</b> failure or neglect to commence with the <b>works</b> on the dates prescribed in the contract</p> <p>33.2.10 the <b>contractor's</b> failure or neglect to proceed with the <b>works</b> in terms of the contract</p> <p>33.2.11 the <b>contractor's</b> failure or neglect for any reason to complete the <b>works</b> in accordance with the contract</p> <p>33.2.12 the <b>contractor's</b> refusal or neglect to comply strictly with any of the conditions of contract or any <b>contract instructions</b> and/or orders in writing given in terms of the contract</p> <p>33.2.13 the <b>contractor's</b> estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<p><b>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</b></p> <p>Clause 34.0</p> <p>Clause 34.13 is amended by replacing "seven (7) <b>calendar days</b>" with "twenty one (21) <b>calendar days</b>" and deleting the words "subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<p><b>A35.0 PAYMENT TO OTHER PARTIES</b></p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<b>Carried Forward</b>	R
<p>Section No. 1 Bill No. 1 Preliminaries</p>	

**Brought Forward**

R

CANCELLATION

**A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT**

Clause 36.0

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT**

Clause 38.0

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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

Clause 39.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**A40.0 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

SUBSTITUTE PROVISIONS

**A41.0 STATE CLAUSES**

Clause 41.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

CONTRACT VARIABLES

THE SCHEDULE (DPW04EC)

**A42.0 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the Contact Variables and Notes to Tenderers (EC) for variables pertaining to this contract

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward		R
<b><u>SECTION B: JBCC PRELIMINARIES</u></b>		
<b>B1.0 DEFINITIONS AND INTERPRETATION</b>		
<b><i>B1.1 Definitions and interpretation</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B2.0 DOCUMENTS</b>		
<b><i>B2.1 Checking of documents</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b><i>B2.2 Provisional bills of quantities</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b><i>B2.3 Availability of construction documentation</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b><i>B2.4 Interests of agents</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b><i>B2.5 Priced documents</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b><i>B2.6 Tender submission</i></b>		
Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (DPW07)"		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B3.0 THE SITE</b>		
<b><i>B3.1 Defined works area</i></b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		

<b>Brought Forward</b>		R
<p><b>B3.2 Geotechnical investigation</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.3 Inspection of the site</b></p> <p>Tenderers shall complete the Site Inspection Certificate (DW16 EC) included in the tender documents and return the same with the tender submission.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.4 Existing premises occupied</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.5 Previous work - dimensional accuracy</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.6 Previous work - defects</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.7 Services - known</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.8 Services - unknown</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.9 Protection of trees</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B3.10 Articles of value</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>Carried Forward</b>		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

Brought Forward		R
<p><b>B3.11 <i>Inspection of adjoining properties</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>B4.0 MANAGEMENT OF CONTRACT</b>		
<p><b>B4.1 <i>Management of the works</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B4.2 <i>Programme for the works</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B4.3 <i>Progress meetings</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B4.4 <i>Technical meetings</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B4.5 <i>Labour and plant records</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</b>		
<p><b>B5.1 <i>Samples of materials</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B5.2 <i>Workmanship samples</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B5.3 <i>Shop drawings</i></b>                      Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>Carried Forward</b>		R
<p>Section No. 1                      Bill No. 1                      Preliminaries</p>		

<b>Brought Forward</b>		R
<b>B5.4 Compliance with manufacturers' instructions</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.0 TEMPORARY WORKS AND PLANT</b>		
<b>B6.1 Deposits and fees</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.2 Enclosure of the works</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.3 Advertising</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.4 Plant, equipment, sheds and offices</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.5 Main notice board</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B6.6 Subcontractors' notice board</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B7.0 TEMPORARY SERVICES</b>		
<b>B7.1 Location</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>B7.2 Water</b>		
Fixed: _____ Value related: _____ Time related: _____	Item	
<b>Carried Forward</b>		R
Section No. 1 Bill No. 1 Preliminaries		

Brought Forward		R
<p><b>B7.3 Electricity</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B7.4 Telecommunication facilities</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B7.5 Ablution facilities</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B8.0 PRIME COST AMOUNTS</b></p>		
<p><b>B8.1 Responsibility for prime cost amounts</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</b></p>		
<p><b>B9.1 General attendance</b></p> <p>The schedule rates providing for attendance on <b>nominated subcontractors</b> and other <b>contractors</b>, will be adjusted only if the scope of the work has changed.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B9.2 Special attendance</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B9.3 Commissioning - fuel, water and electricity</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B10.0 FINANCIAL ASPECTS</b></p>		
<p><b>B10.1 Statutory taxes, duties and levies</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
Carried Forward		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

Brought Forward		R
<p><b>B10.2 Payment for preliminaries</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B10.3 Adjustment of preliminaries</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B10.4 Payment certificate cash flow</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>B11.0 GENERAL</b>		
<p><b>B11.1 Protection of the works</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.2 Protection / isolation of existing / sectionally occupied works</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.3 Security of the works</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.4 Notice before covering work</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.5 Disturbance</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.6 Environmental disturbance</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>Carried Forward</b>		R
<p>Section No. 1            Bill No. 1            Preliminaries</p>		

Brought Forward		R
<p><b>B11.7 Works cleaning and clearing</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.8 Vermin</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.9 Overhand work</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.10 Instruction manuals and guarantees</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.11 As built information</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B11.12 Tenant installations</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>B12.0 SCHEDULE OF VARIABLES</b></p> <p><b>B12.1 Pre-tender information</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>This <b>schedule</b> contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these <b>Preliminaries</b>.</p>		
Carried Forward		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**Brought Forward**

R

Spaces requiring information must be filled in, shown as “not applicable” or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the **schedule**. Key cross reference clauses are italicised in [ ] brackets

12.1 **PRE TENDER INFORMATION**

12.1.1 ***Provisional Bills of Quantities***

[2.2] *The quantities are provisional*  
No

12.1.2 ***Availability of construction documentation***

[2.3] *Construction documentation is complete*  
Yes

12.1.3 ***Interests of agents***

[2.4] Details:  
Nil

12.1.4 ***Defined works area***

[3.1] Details:  
  
*The work area will be pointed out by the principal agent to the contractor who will sign a written acknowledgement therefor before commencing operations.*

12.1.5 ***Geotechnical investigation***

[3.2] Details:

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward

R

12.1.6 **Existing premises occupied**  
[3.4] Specific requirements:

*Not applicable.*

12.1.7 **Previous work - dimensional accuracy**  
[3.5] Details:

*Not applicable.*

12.1.8 **Previous work - defects**  
[3.6] Details:

12.1.9 **Services - known**  
[3.7] Details:

*Should the **contractor** encounter any existing services such as underground cables, pipes or sewer during the execution of the **works** he shall notify the **principal agent** immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the **principal agent**.*

12.1.10 **Protection of trees**  
[3.9] Specific requirements:

*Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged.*

12.1.11 **Inspection of adjoining properties**  
[3.11] Specific requirements:

*The **contractor** shall make his own arrangements with owners of adjoining properties in order to execute the **works**.*

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

## Brought Forward

R

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

*The **contractor** shall provide, erect, alter as necessary, maintain, remove and make good on completion of the works suitable hoardings, complete with gantries, fans, safety screens, barriers, guard railing, access gates, covered gangways, steel sections at crane lifts, splayed corners, returned ends, etc. as indicated on the drawings and as necessary for the enclosure of the **works** and the protection of the public, all to the satisfaction of **principal agent** and the Local Authority.*

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.*

## Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

<b>Brought Forward</b>		R
12.1.15 <b>Subcontractors' notice board</b> [6.6] Specific requirements:	No	
12.1.16 <b>Water</b> [7.2] Option A (by <b>contractor</b> )	Yes	
12.1.17 <b>Electricity</b> [7.3] Option A (by <b>contractor</b> )	Yes	
12.1.18 <b>Telecommunications</b> [7.4] Telephone	Yes	
Facsimile	Yes	
E-mail	Yes	
12.1.19 <b>Ablution facilities</b> [7.5] Option A (by <b>contractor</b> )	Yes	
12.1.20 <b>Protection of existing/sectionally occupied works</b> [11.2] Protection is required	No	
12.1.21 <b>Special attendance</b> [9.2] <b>Subcontractors</b> (1) details:		
<b>Subcontractors</b> (2) details:		
<b>Subcontractors</b> (3) details:		
<b>Subcontractors</b> (4) details:		
12.1.22 <b>Protection of works</b> [11.1] Specific requirements:		
<b>Carried Forward</b>		R
Section No. 1 Bill No. 1 Preliminaries		

Brought Forward

R

12.1.23 **Disturbance**

[11.5] Specific requirements:

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 **POST-TENDER INFORMATION**

12.2.1 **Payment of preliminaries**

[10.2] Option A (pro-rated)

(Yes/No)

Option B (calculated)

(Yes/No)

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

(Yes/No)

Option B (detailed breakdown)

(Yes/No)

12.2.3 **Additional agreed preliminaries items**

Details:

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward

R

**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**

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 intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C2 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, 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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C3 TRADE NAMES**

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**C4 IMPORTED MATERIALS AND EQUIPMENT**

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 (DPW23EC) 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)

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C5 - C9 SECURITY CLAUSES**

Clause C5 - C9: Viewing of site in security areas, commencement of work in security areas, entrance permits to security areas, security check on personnel, prohibition on taking photographs are not applicable.

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

Brought Forward

R

C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. 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 of "Section 1: Preliminaries (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.

C10.1 AWARENESS CAMPAIGN

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

C10.2 AWARENESS WORKSHOPS

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C10.4 ACCESS TO CONDOMS**

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C10.5 MONITORING**

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

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried Forward**

R

Section No. 1  
 Bill No. 1  
 Preliminaries

Brought Forward

R

**C11 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 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. 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.

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**CONTRACT VARIABLES**

**THE SCHEDULE**

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.

**41.0 PRE-TENDER INFORMATION**

**41.1 CONTRACTING AND OTHER PARTIES**

41.1.1 **Employer:**            *Development Bank of  
Southern Africa*  
Postal address: *P O Box 1234  
Halfway House  
Midrand  
Code: 1685*

Tel: (011) 313 3911      Fax: (011) 313 3086

[1.2] Physical address: *1258 Lever Road  
Midrand  
Johannesburg  
Code: 1685*

**41.2 CONTRACT DETAILS**

**41.2.1 Works description :**

*The Works comprises of the construction of:*

*Alterations & Additions to 11 existing classrooms; Renovations to 1 x Grade R Classroom; 6 x Girls Ablutions; 1 x Disabled Ablutions; 3 x Staff Ablutions 2 x Boys Ablutions with 4 x urinals; Retaining walls; Walkways; Water Tanks and stands; French drains; Stormwater channels*

**41.2.2 Site description :**

*Grassed, very gently sloping site*

*Refer to clause 7 of the "Notes To Tenderers" for location*

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

	R
<p style="text-align: center;"><b>Brought Forward</b></p> <p>41.2.3 Work or installations by <b>direct contractors</b> : [22.2] N/A</p> <p>41.2.4 Specific options that are applicable to a <b>State</b> organ [41.0] only</p> <p style="padding-left: 40px;">Where so:</p> <p>[31.11.2#] (1) Interest rate legislation <i>Will be in terms of the legislation of the Republic of South Africa</i></p> <p>[11.2#] (2) Lateral support insurance to be effected by the <b>contractor</b> Yes</p> <p>[31.4.2#] (3) Payment will be made for <b>materials and goods</b> Yes</p> <p>[40.2.2#] (4) Dispute resolution by litigation Yes</p> <p>[26.1.2#] (5) Extended <b>defects</b> liability period applicable to the following elements:</p>	
<p>41.2.5 Possession of the <b>site</b> is intended to be given on [15.2.1#] <i>To be announced</i></p> <p>41.2.6 Period for the commencement of the <b>works</b> after the [15.3] <b>contractor</b> takes possession of the <b>site</b>: <i>Five Working days</i></p> <p>41.2.7 For the <b>works</b> as a whole: [24.3.1] The date for <b>practical completion</b>: .. <b>Months</b> after the commencement date of tender inclusive of all statutory and builders holidays</p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>

Brought Forward	R
<p>41.2.8 For the <b>works</b> in sections:</p> <p style="padding-left: 40px;"><b>Section 1</b>                      [24.3.1] The date for <b>practical completion</b>:                      [28.1] The <b>penalty</b> per <b>calender day</b>:</p> <p style="padding-left: 40px;"><b>Section 2</b>                      [24.3.1] The date for <b>practical completion</b>:                      [28.1] The <b>penalty</b> per <b>calender day</b>:</p> <p style="padding-left: 40px;"><b>Section 3</b>                      [24.3.1] The date for <b>practical completion</b>:                      [28.1] The <b>penalty</b> per <b>calender day</b>:</p> <p>41.2.9 The <b>law</b> applicable to this <b>agreement</b> shall be that of                      [1.2] <i>South Africa</i></p> <p>41.3 <b>INSURANCES</b></p> <p>41.3.1 Contract works insurance to be effected by                      [10.1#, 10.2#, 12.1#] <b>Contractor</b></p> <p style="padding-left: 40px;">For the sum of  <b>Contract sum</b> plus 10%</p> <p style="padding-left: 40px;">With a deductible of  <i>To be paid by the contactor in any event</i></p> <p>41.3.2 Supplementary insurance is required                      [10.1#, 10.2#, 12.1#] <b>Yes, SASRIA by the contractor</b></p> <p>41.3.3 Public liability insurance to be effected by                      [11.1#, 12.1#] <b>Contractor</b></p> <p style="padding-left: 40px;">For the sum of  <i>R 10,000,000.00 (Ten Million Rands)</i></p> <p style="padding-left: 40px;">With a deductible of  <i>To be paid by the contractor in any event</i></p>	
Carried Forward	R
Section No. 1 Bill No. 1 Preliminaries	

<b>Brought Forward</b>	R
41.3.4 Support insurance to be effected by [11.1#, 12.1#] <i>Not Applicable</i>	
For the sum of	
With a deductible of	
<b>41.4 DOCUMENTS</b>	
42.4.1 Waiver of the contractor's lien or right of continuing possession is required [3.3, 15.1.3, 31.16.2#] Yes	
42.4.2 Construction document copies to be supplied to the [3.7] <b>contractor</b> free of charge <i>3 copies</i>	
42.4.4 On acceptance of the tender the <b>bills of quantities</b> is [15.1.1] to be submitted within <b>working days</b> <i>5 (Five)</i>	
42.4.5 <b>JBCC</b> Engineering General Conditions are to be included in the <b>contract documents</b> [3.4] Not applicable	
42.4.6 The contract value is to be adjusted using <b>CPAP</b> [31.5.3] indices <i>No</i>	
[32.13] Where <b>CPAP</b> is to be used, base month is N/A	
Alternative Indices ( <i>if applicable</i> )	
42.4.7 Details of changes made to the provisions of JBCC [3.10] standard documentation	
42.4.8 Clause A31 has been amended to read that payment [A31] be made within 30 days.	
<b>Carried to Final Summary</b>	
Section No. 1 Bill No. 1 Preliminaries	R

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p>Key:                      Location Description:</p> <p>B1                      Block A</p> <p>B2                      Block B</p> <p>B3                      Block C</p> <p>B4                      Block D</p> <p>B5                      Block E</p> <p>B6                      Girls Ablutions</p> <p>B7                      Staff Ablutions</p> <p>B8                      Boys Ablutions</p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see Standard Preambles to all Trades WB 20-1986 SP1 - SP74 and Supplementary Preambles</p> <p><b><u>Prices</u></b></p> <p>Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Director and all rubbish, debris, etc. arising from the alterations, etc. and for making good all work damaged or disturbed to the approval of the Director.</p> <p>Tenderers are advised to visit the site and to inspect the works in conjunction with the drawings in order to ascertain the exact nature and extent of the work to be done. The work is to be carried out in sections in accordance with the Architect's instructions in such a manner as to cause the minimum of nuisance and delay and the various sections are to be handed over for occupation as soon as they are completed and Tenderers must allow accordingly for this in their pricing.</p> <p>The Contractor will be held solely responsible for checking all floor levels and dimensions in the existing building in order that the new extensions may be correctly lined up. Should any discrepancies be found in the Architect's drawings he should be asked for a decision before continuing with the work.</p>			
			R
		<b>Carried Forward</b>	
<p>Section No. 2</p> <p>Bill No. 1</p> <p>Alterations (Provisional)</p>			

**Brought Forward**

The Contractor will be held solely responsible for any damage to persons and property, for the safety of the new and existing structure throughout the whole of the contract and must make good at his own expense any damage that may occur.

Old materials described as "carefully take out, set aside for re-use and later refix in new position" are to be carefully removed, stored and protected from injury, made good as required and if broken or damaged through taking out, removing, storage, etc, are to be replaced by the Contractor at his own expense.

Tenderers are advised to inspect these materials to ascertain their condition and allow accordingly for this in their pricing.

Old materials, which are to become the property of the Contractor as they are pulled down, together with all building debris from any cause whatsoever, are to be immediately carted away and the site left clean and unencumbered. Allow for watering the works sufficiently to prevent nuisance from dust.

Allow for giving notice to local or other authorities for disconnecting electric light, water and drainage mains and removing telephone wires, etc, and pay all fees in connection therewith and afford every facility to the workmen carrying out this work.

All materials in this section are measured as new except where old material is specifically mentioned as being re-used.

Old materials, if sound and suitable and approved by the Architect, may be re-used in the new structure. This applies particularly to timber which may be re-used for joists, bracing, fittings, etc and broken bricks and other similar material which may be used as filling and hardcore.

Wherever old materials are used instead of the new materials measured, an adjustment will be made by the Quantity Surveyor in the final settlement of accounts by deducting the net cost of the new materials and crediting the Contractor with the amount, if any, allowed by him for the old materials.

When pricing, Tenderers are to allow as follows:

**Carried Forward**

Section No. 2  
 Bill No. 1  
 Alterations (Provisional)

R

R

**Brought Forward**

Where door and window openings, etc, are specified to be filled in, or where jambs, cills, etc are specified to be built up, brickwork shall be of hard burnt clay stock bricks in 5.1 cement mortar unless otherwise specified, cut, toothed and bonded into existing brickwork and pinned up as required with slates or other hard materials. Brickwork built to fair face or in facings is to be of bricks and pointed to match existing. Plaster is to be 5.1 cement plaster unless otherwise specified.

Where lintols are specified as reinforced concrete the prices are to include for breaking out brickwork over for and inserting cement concrete (20MPa) lintol with 230mm bearing on each end and 254mm deep and reinforced with and including one 12mm diameter mild steel rod for each half brick thickness of wall and including formwork. The steel rods are to be hooked at ends and embedded 25mm up from bottom of lintols. Lintols exceeding 1370mm span to be similarly reinforced but with 20mm diameter mild steel rods.

Where lintols are specified as precast concrete the prices are to include for breaking out brickwork over for and inserting precast prestressed cement concrete (30MPa) lintol with 230mm bearing on each end size 108 x 75mm deep for each half brick thickness of wall.

The term "take out" includes all work taken out, taken up, taken down, taken off, etc ; the term "break up" includes all work broken up, broken down, broken off, etc and the term "hack off" includes all work hacked off, hacked up, hacked down, etc.

The term "make good" is to include all labour and material required to match existing work.

The terms "take out and remove door", "take out and remove window", "carefully take out, set aside for re-use and later refix window in new position", etc are to include all materials connected with such door or window such as doors, windows, fanlights, frames, ironmongery, glass, architraves, beads, fillets, cramps, dowels, etc.

The terms "take out and remove sink unit", "take out and remove lavatory basin", "carefully take out, set aside for re-use and later refix W.C. suite in new position", etc are to include all materials connected with such sanitary fittings such as brackets, cisterns, taps, traps, flushing valves, flush pipes, etc and are to include for the cutting back and stopping off of supply and waste pipes. -----  
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**REMOVAL OF EXISTING WORK**

**Carried Forward**

Section No. 2  
Bill No. 1  
Alterations (Provisional)

R

R

Brought Forward					R
<b><u>Breaking up and removing mass concrete</u></b>					
1	Steps			m3	1
	B1 : 1	B2 : 0	B3 : 0	B4 : 0	
	B5 : 0	B6 : 0	B7 : 0	B8 : 0	
	B9 : 0				
2	Surface beds			m3	70
	B1 : 5	B2 : 3	B3 : 3	B4 : 54	
	B5 : 3	B6 : 0	B7 : 0	B8 : 0	
	B9 : 0				
<b><u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u></b>					
3	Timber single door and frame not exceeding 2,5m2			No	12
	B1 : 4	B2 : 2	B3 : 2	B4 : 2	
	B5 : 2	B6 : 0	B7 : 0	B8 : 0	
	B9 : 0				
<b><u>Taking out doors, windows, etc including thresholds, sills, etc and handing to employer (building up openings elsewhere)</u></b>					
4	Steel gate size 900 x 2100mm high and hand to client			No	12
	B1 : 4	B2 : 2	B3 : 2	B4 : 2	
	B5 : 2	B6 : 0	B7 : 0	B8 : 0	
	B9 : 0				
<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>					
NOTE: The Contractor is advised that he will be held responsible for all damages, howsoever caused, to ceiling brandering, wall and floor finishes, fittings, etc., inside the existing rooms where the existing roof covering have been removed for alterations, etc., and he must make good all damages at his own expenses to the approval of the Director					
5	Corrugated iron roof covering and timber purlins			m2	932
	B1 : 317	B2 : 154	B3 : 154	B4 : 154	
	B5 : 154	B6 : 0	B7 : 0	B8 : 0	
	B9 : 0				
<b>Carried Forward</b>					R
Section No. 2 Bill No. 1 Alterations (Provisional)					

<b>Brought Forward</b>						R
6	Roof structure, 265m2 overall on plan having 15 degree pitch, including trusses and purlins	No		1		
	B1 : 1      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
7	Roof structure, 130m2 overall on plan having 15 degree pitch, including trusses and purlins	No		4		
	B1 : 0      B2 : 1      B3 : 1      B4 : 1					
	B5 : 1      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
8	Gypsum ceiling boards including brandering and cornices	m2		177		
	B1 : 0      B2 : 0      B3 : 102      B4 : 0					
	B5 : 75      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
9	Existing timber skirting	m		56		
	B1 : 0      B2 : 0      B3 : 56      B4 : 0					
	B5 : 0      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
<b><u>Taking out and removing sundry joinery work</u></b>						
10	Fibre cement fascias and barge boards	m		223		
	B1 : 80      B2 : 30      B3 : 30      B4 : 30					
	B5 : 53      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
11	Pvc gutters and downpipes	m		200		
	B1 : 58      B2 : 30      B3 : 30      B4 : 30					
	B5 : 52      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
<b><u>Taking up and removing vinyl floor covering, carpeting, etc</u></b>						
12	Vinyl tile floor covering and prepare to receive new floor covering (elsewhere measured).	m2		268		
	B1 : 193      B2 : 0      B3 : 75      B4 : 0					
	B5 : 0      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
<b>Carried Forward</b>						R
Section No. 2						
Bill No. 1						
Alterations (Provisional)						

<b>Brought Forward</b>		R
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b>		
13	Hack up existing screed to floors and prepare where new walls to be built (elsewhere measured)	m2 234
	B1 : 47      B2 : 20      B3 : 27      B4 : 27	
	B5 : 113      B6 : 0      B7 : 0      B8 : 0	
	B9 : 0	
<b><u>Take out and remove</u></b>		
14	Glass and prepare rebates of steel window to receive new glass	m2 6
	B1 : 6      B2 : 0      B3 : 0      B4 : 0	
	B5 : 0      B6 : 0      B7 : 0      B8 : 0	
	B9 : 0	
<b><u>Taking down chalk boards</u></b>		
15	4800 x 1200m chalkboards and pinnig boards	No 12
	B1 : 3      B2 : 2      B3 : 2      B4 : 2	
	B5 : 3      B6 : 0      B7 : 0      B8 : 0	
	B9 : 0	
<b><u>MAKING GOOD OF FINISHES ETC</u></b>		
<b><u>Making good internal cement plaster (1:4 Cement Plaster)</u></b>		
16	Hack off plaster around all large cracks at least 150mm on either side of crack, fill up crack with stiff 3:1 cement grouting solidly caulked in and add chicken mesh and replaster with 4:1 cement plaster, finished off smooth and even surface and on the same plane as the existing plaster, properly concealed.	m 105
	B1 : 45      B2 : 15      B3 : 5      B4 : 20	
	B5 : 20      B6 : 0      B7 : 0      B8 : 0	
	B9 : 0	
17	Walls in patches.	m2 45
	B1 : 11      B2 : 6      B3 : 3      B4 : 10	
	B5 : 15      B6 : 0      B7 : 0      B8 : 0	
	B9 : 0	
<b>Carried Forward to Summary of Section No. 2</b>		
Section No. 2		
Bill No. 1		
Alterations (Provisional)		
		R

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 2</u></b>			
<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
<p>The Tenderer is referred to the relevant Clauses in the document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Nature of material to be excavated:</u>			
<p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p>			
<u>Carting away of excavated material:</u>			
<p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 2 Earthworks (Provisional)</p>			

**Brought Forward**

R

Dewatering of excavations:

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.

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

**EARTHWORKS**

**Site clearance**

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	126
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 42      B7 : 48      B8 : 36		
	B9 : 0		

**Excavations, Filling, Etc.**

2	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	43
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 11      B7 : 15      B8 : 16		
	B9 : 0		

3	Excavate in earth for pit not exceeding 2000mm deep.	m3	109
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 53      B7 : 42      B8 : 14		
	B9 : 0		

**Carried Forward**

R

Section No. 2  
 Bill No. 2  
 Earthworks (Provisional)

				<b>Brought Forward</b>		R
4	Ditto, but exceeding 2000mm deep.			m3	14	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 5	B7 : 7	B8 : 2		
	B9 : 0					
5	Extra over excavations in earth to bases and trenches for excavation in soft rock			m3	16	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 7	B7 : 6	B8 : 3		
	B9 : 0					
6	Extra over excavations in earth to bases and trenches for excavation in hard rock.			m3	8	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 3	B7 : 4	B8 : 1		
	B9 : 0					
7	Extra over all excavations for carting away surplus excavated material.			m3	144	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 63	B7 : 57	B8 : 24		
	B9 : 0					
8	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.			m2	199	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 67	B7 : 71	B8 : 62		
	B9 : 0					
9	Ditto, but exceeding 1500mm deep.			m2	37	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 15	B7 : 13	B8 : 8		
	B9 : 0					
10	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density as backfilling to trenches, bases, etc.			m3	21	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 6	B7 : 7	B8 : 8		
	B9 : 0					
				<b>Carried Forward</b>		R
Section No. 2						
Bill No. 2						
Earthworks (Provisional)						

<b>Brought Forward</b>				R
11	G5 filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% mod AASHTO density under floors, etc.	m3	22	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 4      B7 : 7      B8 : 10 B9 : 0			
12	5% soilcrete backfilling to trenches, holes, etc	m3	56	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 24      B7 : 20      B8 : 12 B9 : 0			
13	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 50mm thick blinding layer under floors, etc.	m3	3	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 1      B7 : 1      B8 : 1 B9 : 0			
14	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	145	
	B1 : 47      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 32      B7 : 37      B8 : 29 B9 : 0			
<b><u>TESTING</u></b>				
15	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	21	
	B1 : 3      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 6      B7 : 6      B8 : 6 B9 : 0			
<b><u>Keeping excavations free of water</u></b>				
16	Keeping excavations free of all water other than subterranean water		Item	
<b><u>SOIL POISONING</u></b>				
<b>Carried Forward</b>				R
Section No. 2 Bill No. 2 Earthworks (Provisional)				

Brought Forward

Soil insecticide

17 Under floors, etc including forming and poisoning shallow furrows against foundation walls, surface beds, etc and filling in furrows and ramming

m2

185

B1 : 47      B2 : 0      B3 : 0      B4 : 0  
 B5 : 0      B6 : 72      B7 : 37      B8 : 29  
 B9 : 0

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 2  
 Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Cost of tests:</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G 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 Architect. (Test cubes are measured separately).</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement</p>			

Brought Forward

R

Formwork:

Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

**CONCRETE, FORMWORK AND REINFORCEMENT**

**VIBRATED REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**25 MPa/19 mm concrete**

1	Strip footings				m3	13
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 3	B7 : 4	B8 : 5		
	B9 : 0					
2	Pit base				m3	10
	B1 : 0	B2 : 0	B3 : 0	B4 : 0		
	B5 : 0	B6 : 5	B7 : 4	B8 : 1		
	B9 : 0					

**VIBRATED REINFORCED CONCRETE**

Carried Forward

R

Section No. 2  
 Bill No. 3  
 Concrete, Formwork and Reinforcement

Brought Forward				R
<b><u>25 MPa/19 mm concrete</u></b>				
3	Surface beds cast in panels on waterproofing.	m3	12	
	B1 : 6      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 1      B7 : 3      B8 : 2			
	B9 : 0			
4	Slabs	m3	10	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 5      B7 : 3      B8 : 1			
	B9 : 0			
5	Beams	m3	1	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			
<b><u>CONCRETE SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
6	Surface beds, slabs, etc	m2	73	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 21      B7 : 19      B8 : 32			
	B9 : 0			
<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>				
7	Surface beds to falls.	m2	195	
	B1 : 47      B2 : 20      B3 : 27      B4 : 28			
	B5 : 27      B6 : 27      B7 : 19      B8 : 0			
	B9 : 0			
<b><u>TESTING</u></b>				
8	Concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	No	6	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 6      B7 : 0      B8 : 0			
	B9 : 0			
<b><u>MOVEMENT JOINTS ETC</u></b>				
Carried Forward				R
Section No. 2				
Bill No. 3				
Concrete, Formwork and Reinforcement				

**Brought Forward**

R

**Saw cut joints**

9	3 x 25mm Saw cut joints in top of concrete	m	13
	B1 : 13      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:**

10	10mm Joints not exceeding 300mm high (Provisional).	m	128
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 45      B7 : 50      B8 : 33		
	B9 : 0		

**Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:**

11	10 x 10mm In vertical expansion joints between concrete and brick surfaces, including raking out expansion joint filler as necessary (Provisional).	m	128
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 45      B7 : 50      B8 : 33		
	B9 : 0		

**SMOOTH FORMWORK (DEGREE OF ACCURACY II)**

**Formwork to Sides and Soffits:**

12	Slabs propped up not exceeding 3,5m high.	m2	37
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 22      B7 : 15      B8 : 0		
	B9 : 0		

13	Beams propped up not exceeding 3,5m high.	m2	8
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 5      B7 : 3      B8 : 0		
	B9 : 0		

**REINFORCEMENT**

**Carried Forward**

R

Section No. 2  
 Bill No. 3  
 Concrete, Formwork and Reinforcement

Brought Forward

R

**Fabric reinforcement:**

14	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	102
	B1 : 47      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 12      B7 : 19      B8 : 24		
	B9 : 0		

15	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	211
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 105      B7 : 77      B8 : 29		
	B9 : 0		

**Mild steel reinforcement to structural concrete work**

16	10mm Diameter bars	t	1.00
	B1 : 0.00      B2 : 0.00      B3 : 0.00      B4 : 0.00		
	B5 : 0.00      B6 : 0.25      B7 : 0.50      B8 : 0.25		
	B9 : 0.00		

**High tensile steel reinforcement to structural concrete work**

17	12mm Diameter bars	t	2.25
	B1 : 0.00      B2 : 0.00      B3 : 0.00      B4 : 0.00		
	B5 : 0.00      B6 : 0.75      B7 : 0.75      B8 : 0.75		
	B9 : 0.00		

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 3  
 Concrete, Formwork and Reinforcement

R

Item No	<b>SECTION NO. 2</b>	Quantity	Rate	Amount
	<p><b><u>BILL NO. 4MASONRY</u></b></p> <p>Key:                    Location Description:</p> <p>B1                    Block A            B2                    Block B            B3                    Block C            B4                    Block D            B5                    Block E            B6                    Girls Ablutions            B7                    Staff Ablutions            B8                    Boys Ablutions</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Proprietary products in descriptions:</u></p> <p>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>Sizes in descriptions:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> <p><u>Pointing:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, and cleaning etc.</p>			
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 4 Masonry			

**Brought Forward**

R

Samples, etc:

Rates for brickwork, faced brickwork, etc shall include for all required samples.

Concrete masonry units:

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa

Wall ties for blockwork:

Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Blockwork:

Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"

Surfaces shall have joints raked out to a depth of at least 10mm and pointed on exposed surfaces. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.

**BRICKWORK IN FOUNDATIONS**  
**(PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

1	One brick walls.	m2	59
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 16      B7 : 21      B8 : 22		
	B9 : 0		
2	One brick walls in pits	m2	134
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 52      B7 : 51      B8 : 30		
	B9 : 0		

**BRICKWORK IN SUPERSTRUCTURE**

**Carried Forward**

R

Section No. 2  
Bill No. 4  
Masonry

Brought Forward				R
<b><u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u></b>				
3	Half brick walls.	m2	34	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 22      B7 : 5      B8 : 8			
	B9 : 0			
4	Half brick walls in beamfilling	m2	14	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 4      B7 : 6      B8 : 4			
	B9 : 0			
5	One brick walls.	m2	212	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 58      B7 : 87      B8 : 67			
	B9 : 0			
6	Mass brickwork in piers.	m3	0.2	
	B1 : 0.0      B2 : 0.0      B3 : 0.0      B4 : 0.0			
	B5 : 0.0      B6 : 0.2      B7 : 0.0      B8 : 0.0			
	B9 : 0.0			
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixéal" bitumen emulsion waterproofing coating:</u></b>				
7	To walls (Provisional).	m2	191	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 58      B7 : 66      B8 : 67			
	B9 : 0			
<b><u>Brickwork reinforcement:</u></b>				
8	75mm Wide reinforcement built in horizontally.	m	118	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 88      B7 : 0      B8 : 30			
	B9 : 0			
9	Ditto, but in foundations	m	25	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 25      B7 : 0      B8 : 0			
	B9 : 0			
Carried Forward				R
Section No. 2				
Bill No. 4				
Masonry				

				<b>Brought Forward</b>		R
10	150mm Wide reinforcement built in horizontally.	m	843			
	B1 : 0      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 232      B7 : 344      B8 : 267					
	B9 : 0					
11	Ditto, but in foundations	m	1 078			
	B1 : 0      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 0      B7 : 555      B8 : 523					
	B9 : 0					
<b><u>Prestressed fabricated lintels:</u></b>						
12	110 x 75mm Lintels in lengths not exceeding 3m.	m	15			
	B1 : 0      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 5      B7 : 6      B8 : 4					
	B9 : 0					
<b><u>Turning pieces:</u></b>						
13	200mm Wide turning piece to lintels etc.	m	8			
	B1 : 0      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 8      B7 : 0      B8 : 0					
	B9 : 0					
<b><u>Galvanised hoop iron cramps, ties, etc</u></b>						
14	30 x 1,6 mm Hoop iron roof tie 1500 mm long with one end fixed to timber and other end built into six courses of brickwork	No	92			
	B1 : 56      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 12      B7 : 14      B8 : 10					
	B9 : 0					
15	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into brickwork or concrete.	No	24			
	B1 : 24      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
16	10 x 75mm Mild steel dowel and mortices in wood and concrete.	No	8			
	B1 : 8      B2 : 0      B3 : 0      B4 : 0					
	B5 : 0      B6 : 0      B7 : 0      B8 : 0					
	B9 : 0					
				<b>Carried Forward</b>		R
Section No. 2						
Bill No. 4						
Masonry						

Brought Forward				R
<b><u>Air bricks etc:</u></b>				
17	230 x 160mm Cement vermin proof air brick.	No	24	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 8      B7 : 8      B8 : 8			
	B9 : 0			
<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>				
18	15 x 150mm Wide sills set flat and slightly projecting.	m	18	
	B1 : 18      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			
<b><u>FACE BRICKWORK</u></b>				
<b><u>Face brickwork sample panel, including strip footing, etc and demolishing on completion of the works:</u></b>				
19	One brick sample panel 2000 x 1500mm high, faced and pointed on both sides and ends, including horizontal band three courses high of differing face brick and finish on top with brick-on-edge header course.	No	1	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 0      B7 : 1      B8 : 0			
	B9 : 0			
<b><u>Facebricks (FBS) "Country Classic" or similar approved pointed with square ruled recessed horizontal and vertical joints:</u></b>				
20	Extra over brickwork for face brickwork externally.	m2	207	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 58      B7 : 82      B8 : 67			
	B9 : 0			
21	Extra over brickwork for face brickwork in piers.	m2	3	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 3      B7 : 0      B8 : 0			
	B9 : 0			
22	Extra over brickwork for face brickwork in beamfilling.	m2	13	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 4      B7 : 5      B8 : 4			
	B9 : 0			
Carried Forward				R
Section No. 2				
Bill No. 4				
Masonry				

		<b>Brought Forward</b>			R
23	Ditto, but in foundations (Provisional).		m2	19	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0				
	B5 : 0      B6 : 8      B7 : 11      B8 : 0				
	B9 : 0				
	<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>				
24	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.		m	15	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0				
	B5 : 0      B6 : 6      B7 : 5      B8 : 4				
	B9 : 0				
25	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.		m	26	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0				
	B5 : 0      B6 : 10      B7 : 8      B8 : 9				
	B9 : 0				
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 4					
Masonry					

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 5 WATERPROOFING</u></b>			
	Key:	Location Description:		
	B1	Block A		
	B2	Block B		
	B3	Block C		
	B4	Block D		
	B5	Block E		
	B6	Girls Ablutions		
	B7	Staff Ablutions		
	B8	Boys Ablutions		
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	<p>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>			
	<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u></b>			
1	Below walls, sills, etc.	m2	26	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 6      B7 : 13      B8 : 8			
	B9 : 0			
	<b><u>250 Micron Embossed Dampproof Sheeting</u></b>			
2	Under concrete slabs.	m2	145	
	B1 : 47      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 42      B7 : 26      B8 : 31			
	B9 : 0			
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 5			
	Waterproofing			

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 6 ROOF COVERINGS ETC.</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
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<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Fixing:</u>			
<p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.</p>			
<u>Guarantee:</u>			
<p>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.</p>			
<u>Pricing:</u>			
<p>Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 6 Roof Coverings Etc.</p>			

Brought Forward

R

**RIBBED SHEETING AND ACCESSORIES**

**0,58mm Cromadeck KlipLok roof sheeting, fixed to timber purlins elsewhere measured.**

1	Roof covering with pitch not exceeding 50 degrees.	m2	1 081
	B1 : 317    B2 : 154    B3 : 154    B4 : 154		
	B5 : 154    B6 : 50    B7 : 56    B8 : 43		
	B9 : 0		

**0,8mm Nominal thickness ditto, but flashings:**

2	Ridge 460mm girth with minimum 230mm laps, fixed to roof sheeting (measured net).	m	110
	B1 : 29    B2 : 15    B3 : 15    B4 : 15		
	B5 : 15    B6 : 7    B7 : 8    B8 : 6		
	B9 : 0		

3	Moulded narrow and broad rib polyethelene filler blocks	m	220
	B1 : 58    B2 : 30    B3 : 30    B4 : 30		
	B5 : 30    B6 : 14    B7 : 16    B8 : 12		
	B9 : 0		

4	Moulded narrow and broad rib polyethelene filler blocks raking at valleys or hips	m	220
	B1 : 58    B2 : 30    B3 : 30    B4 : 30		
	B5 : 30    B6 : 14    B7 : 16    B8 : 12		
	B9 : 0		

**RAINWATER DISPOSAL (PROVISIONAL):**

**Pre-painted aluminium rainwater goods:**

5	150 x 130 x 150mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	220
	B1 : 58    B2 : 30    B3 : 30    B4 : 30		
	B5 : 30    B6 : 14    B7 : 16    B8 : 12		
	B9 : 0		

6	Extra over eaves gutter for stop end.	No	32
	B1 : 4    B2 : 4    B3 : 4    B4 : 4		
	B5 : 4    B6 : 4    B7 : 4    B8 : 4		
	B9 : 0		

Carried Forward

R

Section No. 2  
 Bill No. 6  
 Roof Coverings Etc.

<b>Brought Forward</b>						R
7	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No		16		
	B1 : 2      B2 : 2      B3 : 2      B4 : 2					
	B5 : 2      B6 : 2      B7 : 2      B8 : 2					
	B9 : 0					
8	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m		48		
	B1 : 6      B2 : 6      B3 : 6      B4 : 6					
	B5 : 6      B6 : 6      B7 : 6      B8 : 6					
	B9 : 0					
9	Extra over rainwater pipe for bend.	No		16		
	B1 : 2      B2 : 2      B3 : 2      B4 : 2					
	B5 : 2      B6 : 2      B7 : 2      B8 : 2					
	B9 : 0					
<b><u>ROOF INSULATION</u></b>						
<b><u>Sisalation 420 housing grade reinforced aluminium foil and polyethylene insulation:</u></b>						
10	Insulation laid taut over purlins (at maximum 1200mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires.	m2		1 081		
	B1 : 317      B2 : 154      B3 : 154      B4 : 154					
	B5 : 154      B6 : 50      B7 : 56      B8 : 43					
	B9 : 0					
<b>Carried Forward to Summary of Section No. 2</b>						
Section No. 2						
Bill No. 6						
Roof Coverings Etc.						
						R

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 7 CARPENTRY AND JOINERY</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Prefabricated roof trusses:</u>			
<p>Prices must include for all cross and windbracing according to the manufacturer's instruction.</p>			
<p>Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.</p>			
<p>Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 7 Carpentry and Joinery</p>			

**Brought Forward**

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:

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

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

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

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

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.

**Carried Forward**

Section No. 2  
 Bill No. 7  
 Carpentry and Joinery

R

R

**Brought Forward**

R

- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Seperate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and branding to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:  
  
 "The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Joinery:

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.

Fixing:

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

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

Where items are described as "bolted" the bolts have been measured elsewhere.

**ROOFS ETC**

**Carried Forward**

R

Section No. 2  
 Bill No. 7  
 Carpentry and Joinery

**Brought Forward**

R

**Sawn softwood:**

1	38 x 114mm Wall plate.	m	215
	B1 : 56    B2 : 30    B3 : 30    B4 : 30		
	B5 : 30    B6 : 13    B7 : 15    B8 : 11		
	B9 : 0		
2	38 x 228mm Gang boarding. (Provisional).	m	95
	B1 : 28    B2 : 14    B3 : 14    B4 : 14		
	B5 : 25    B6 : 0    B7 : 0    B8 : 0		
	B9 : 0		

**PREFABRICATED ROOF TRUSSES, ETC.**

**Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.**

**Note:** Tenderers are referred to the Architects roof plan drawings annexed to these bills of quantities / accompanying these bills of quantities for tender purposes. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design.

3	Roof construction to double pitched roof with two gable ends, 43m2 overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (GIRLS ABLUTIONS)	No	1.00
	B1 : 0.00    B2 : 0.00    B3 : 0.00    B4 : 0.00		
	B5 : 0.00    B6 : 1.00    B7 : 0.00    B8 : 0.00		
	B9 : 0.00		

**Carried Forward**

R

Section No. 2  
 Bill No. 7  
 Carpentry and Joinery

<b>Brought Forward</b>				R
4	Roof construction to double pitched roof with two gable ends, 50m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (STAFF ABLUTIONS)	No	1.00	
	B1 : 0.00    B2 : 0.00    B3 : 0.00    B4 : 0.00			
	B5 : 0.00    B6 : 0.00    B7 : 1.00    B8 : 0.00			
	B9 : 0.00			
5	Roof construction to double pitched roof with two gable ends, 40m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BOYS ABLUTIONS)	No	1.00	
	B1 : 0.00    B2 : 0.00    B3 : 0.00    B4 : 0.00			
	B5 : 0.00    B6 : 0.00    B7 : 0.00    B8 : 1.00			
	B9 : 0.00			
6	Roof construction to double pitched roof with two gable ends, 265m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BLOCK A)	No	1.00	
	B1 : 1.00    B2 : 0.00    B3 : 0.00    B4 : 0.00			
	B5 : 0.00    B6 : 0.00    B7 : 0.00    B8 : 0.00			
	B9 : 0.00			
7	Roof construction to double pitched roof with two gable ends, 135m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BLOCK B)	No	1.00	
	B1 : 0.00    B2 : 1.00    B3 : 0.00    B4 : 0.00			
	B5 : 0.00    B6 : 0.00    B7 : 0.00    B8 : 0.00			
	B9 : 0.00			
8	Roof construction to double pitched roof with two gable ends, 151m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BLOCK C)	No	1.00	
	B1 : 0.00    B2 : 0.00    B3 : 1.00    B4 : 0.00			
	B5 : 0.00    B6 : 0.00    B7 : 0.00    B8 : 0.00			
	B9 : 0.00			
<b>Carried Forward</b>				R
Section No. 2				
Bill No. 7				
Carpentry and Joinery				

<b>Brought Forward</b>			R
9	Roof construction to double pitched roof with two gable ends, 151m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BLOCK D) B1 : 0.00    B2 : 0.00    B3 : 0.00    B4 : 1.00 B5 : 0.00    B6 : 0.00    B7 : 0.00    B8 : 0.00 B9 : 0.00	No	1.00
10	Roof construction to double pitched roof with two gable ends, 158m <sup>2</sup> overall on plan having 15 degree pitch, including trusses, hurricane clips, permanent bracing purlins centres for roof covering (wall plates elsewhere measured) (BLOCK E) B1 : 0.00    B2 : 0.00    B3 : 0.00    B4 : 0.00 B5 : 1.00    B6 : 0.00    B7 : 0.00    B8 : 0.00 B9 : 0.00	No	1.00
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>Fibre cement fascia</u></b>			
11	12 x 225 Fascia board three times drilled, and brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc. B1 : 58    B2 : 30    B3 : 31    B4 : 32 B5 : 32    B6 : 14    B7 : 16    B8 : 12 B9 : 0	m	224
12	Extra on last for splay cut end. B1 : 4    B2 : 4    B3 : 4    B4 : 4 B5 : 4    B6 : 4    B7 : 4    B8 : 4 B9 : 0	No	32
13	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc. B1 : 22    B2 : 22    B3 : 22    B4 : 22 B5 : 22    B6 : 14    B7 : 14    B8 : 14 B9 : 0	m	152
<b><u>DOORS ETC</u></b>			
<b>Carried Forward</b>			R
Section No. 2 Bill No. 7 Carpentry and Joinery			

Brought Forward				R
<b><u>Semi-solid "TDM" or similar approved flush doors with hardwood finger jointed stiles hung to steel frames</u></b>				
14	40mm Door 813 x 1932mm high	No	11	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 6      B7 : 3      B8 : 2			
	B9 : 0			
15	40mm single door 813 x 2032mm high	No	1	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 1      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			
<b><u>Wrought meranti doors:</u></b>				
16	44mm Thick, framed, ledged and batten door, formed of 44 x 110mm stiles and top rail, 44 x 150mm middle ledge and braces and 44 x 220mm bottom ledge, the stiles and top rail grooved for and filled in with 22 x 70mm tongued, grooved and V-jointed vertical boarding, size 813 x 2032mm high.	No	17	
	B1 : 4      B2 : 2      B3 : 2      B4 : 2			
	B5 : 3      B6 : 1      B7 : 2      B8 : 1			
	B9 : 0			
17	Ditto, but door size 966 x 2032mm high.	No	1	
	B1 : 0      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 0      B7 : 1      B8 : 0			
	B9 : 0			
<b><u>FRAMED FRAMES ETC</u></b>				
<b><u>Wrought meranti:</u></b>				
18	70 x 108mm Rebated and angle rounded door frames plugged.	m	65	
	B1 : 20      B2 : 10      B3 : 10      B4 : 10			
	B5 : 15      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			
<b><u>BEADS, ARCHITRAVES, ETC</u></b>				
Carried Forward				R
Section No. 2 Bill No. 7 Carpentry and Joinery				

**Brought Forward**

**Wrought meranti:**

19	19 x 70mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	373
	B1 : 112      B2 : 56      B3 : 56      B4 : 56		
	B5 : 91      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**Sundries:**

20	38 x 76 mm Chamfered and grooved weatherboard fixed in and including groove or rebate in underside of door.	m	11
	B1 : 3      B2 : 2      B3 : 2      B4 : 2		
	B5 : 2      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**PINNING BOARDS**

**Aluminium frame pinning boards**

21	Standard wall mounted pinning board 1200 x 4800mm long (Code 2309D) of 2(no) 1200 x 2400mm panels with 'Belgotex Colour-Rib' surface, in natural anodised aluminium frame, plugged.	No	13
	B1 : 4      B2 : 2      B3 : 2      B4 : 2		
	B5 : 3      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 7  
 Carpentry and Joinery

R

R

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 8 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p>Key:                      Location Description:</p> <p>B1                      Block A</p> <p>B2                      Block B</p> <p>B3                      Block C</p> <p>B4                      Block D</p> <p>B5                      Block E</p> <p>B6                      Girls Ablutions</p> <p>B7                      Staff Ablutions</p> <p>B8                      Boys Ablutions</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Proprietary products in descriptions:</u></p> <p>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>Descriptions:</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.</p> <p><b><u>NAILED UP CEILINGS</u></b></p>			
			R
		<b>Carried Forward</b>	
Section No. 2			
Bill No. 8			
Ceilings, Partitions and Access Flooring			

**Brought Forward**

**4mm "Everite Nutec" fibre cement board with H-profile white pvc jointing strips:**

1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres and at all perimeter edges	m2	748
	B1 : 193    B2 : 98    B3 : 100    B4 : 100		
	B5 : 175    B6 : 26    B7 : 26    B8 : 30		
	B9 : 0		

2	Extra over Fibre-cement ceiling for forming trap door size 600 x 600mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers.	No	9
	B1 : 1    B2 : 1    B3 : 1    B4 : 1		
	B5 : 2    B6 : 1    B7 : 1    B8 : 1		
	B9 : 0		

**Rhino gypsum plasterboard cornices:**

3	75mm Coved cornice plugged to walls including mitres, etc	m	503
	B1 : 128    B2 : 56    B3 : 56    B4 : 56		
	B5 : 104    B6 : 30    B7 : 39    B8 : 35		
	B9 : 0		

**Non-combustible polyester thermal insulation of a density of not less than 10kg/m3:**

4	100mm Insulation in blanket form closely fitted and laid on top of brandering between roof timbers etc.	m2	666
	B1 : 193    B2 : 98    B3 : 100    B4 : 100		
	B5 : 175    B6 : 0    B7 : 0    B8 : 0		
	B9 : 0		

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 8  
 Ceilings, Partitions and Access Flooring

R

R

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 9 FLOOR COVERINGS, WALL LININGS, ETC</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Cleaning:</u>			
<p>Rates for floor covering shall include for proper cleaning on completion.</p>			
<b><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></b>			
<b>Carried Forward</b>			R
<p>Section No. 2            Bill No. 9            Floor Coverings, Wall Linings, Etc.</p>			

Brought Forward

**2mm "Floorwox/Polyflor" or similar approved heavy duty fully flexible homogeneous non directional "Prestige PVR" or similar approved 2000mm wide vinyl floor sheeting with welded joints, laid in patterns with approved pressure sensitive adhesive in strict accordance with the manufacturer's specification**

1	On smooth screeded floors.	m2	666	
	B1 : 193      B2 : 98      B3 : 100      B4 : 100			
	B5 : 175      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			

**POLISH, SEALERS, ETC**

**Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer:**

2	On vinyl flooring.	m2	666	
	B1 : 193      B2 : 98      B3 : 100      B4 : 100			
	B5 : 175      B6 : 0      B7 : 0      B8 : 0			
	B9 : 0			

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 9  
 Floor Coverings, Wall Linings, Etc.

R

R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10 IRONMONGERY</u></b>			
	Key:	Location Description:		
	B1	Block A		
	B2	Block B		
	B3	Block C		
	B4	Block D		
	B5	Block E		
	B6	Girls Ablutions		
	B7	Staff Ablutions		
	B8	Boys Ablutions		
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	<p>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>			
	<u>Finishes to ironmongery:</u>			
	<p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list            BS Satin bronze lacquered            CP Chromium plated            SC Satin chromium plated            SE Silver enamelled            GE Grey enamelled            AS Anodised silver            AB Anodised bronze            AG Anodised gold            ABL Anodised black            PB Polished brass            PL Polished and lacquered            PT Epoxy coated            SD Sanded            Fixing:</p>			
	<p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories</p>			
	<p>Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories</p>			
	<p>Ironmongery to be Union or similar approved</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2            Bill No. 10            Ironmongery</p>			

Brought Forward

R

**HINGES, BOLTS, ETC**

**Hinges, Bolts, Etc**

1	100 x 75mm heavy duty nylon washered brass butt hinges.	No	60
	B1 : 8      B2 : 4      B3 : 4      B4 : 4		
	B5 : 8      B6 : 14      B7 : 12      B8 : 6		
	B9 : 0		
2	"DCLSA" or similar approved WC indicator lock.	No	11
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 6      B7 : 3      B8 : 2		
	B9 : 0		
3	150mm barrel bolt.	No	12
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 6      B7 : 4      B8 : 2		
	B9 : 0		

**LOCKS**

**Locks:**

4	Four lever approved mortice lockset (Union 2277-78 or similar approved) complete with approved chromium plated handles.	No	8
	B1 : 4      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 1      B7 : 2      B8 : 1		
	B9 : 0		
5	37651AS Helping hand indicator bolt	No	1
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 0      B7 : 1      B8 : 0		
	B9 : 0		

**HANDLES, ETC**

**Union or similar approved**

6	45 x 45 mm PB flush pull handle including 35mm diameter recess in timber face	No	12
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 6      B7 : 4      B8 : 2		
	B9 : 0		

**BATHROOM FITTINGS ETC.**

Carried Forward

R

Section No. 2  
 Bill No. 10  
 Ironmongery

Brought Forward

R

**Longarms:**

7	32mm Diameter polished hardwood longarm 1.2m long fitted with polished brass pole hook, secured in one chromium plated spring clip screwed to and including small polished hardwood block plugged to wall and fitted on hardwood base size 88 x 88mm countersunk for rod plugged to floor, including quadrant planted on.	No	14
	B1 : 4      B2 : 2      B3 : 2      B4 : 2		
	B5 : 4      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**Sundries:**

8	32mm Diameter black rubber door stop plugged to concrete floor.	No	20
	B1 : 4      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 7      B7 : 6      B8 : 3		
	B9 : 0		

**"Stainless steel grab rails"**

9	DL2 32mm Stainless steel wall mounted side cranked grab rail plugged	No	1
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 0      B7 : 1      B8 : 0		
	B9 : 0		

10	SR2A 32mm Stainless steel wall mounted cistern rail plugged	No	1
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 0      B7 : 1      B8 : 0		
	B9 : 0		

**LETTERS, NAMEPLATES, ETC.**

**Acrylic door plates:**

11	40 x 40 x 5mm Thick black acrylic door number plate with two numbers size 25mm high, engraved with arial font and painted white, fixed to door, door frame or wall with chromium plated domeheaded screws.	No	14
	B1 : 4      B2 : 2      B3 : 2      B4 : 2		
	B5 : 4      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

Carried Forward

R

Section No. 2  
Bill No. 10  
Ironmongery

**Brought Forward**

**Sign plates:**

12	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door. B1 : 4      B2 : 2      B3 : 2      B4 : 2 B5 : 3      B6 : 0      B7 : 0      B8 : 0 B9 : 0	No	13
13	152 x 152 x 2mm Anodised silver engraved sign with Male Pictogram E10, fixed to wall or door B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 0      B7 : 1      B8 : 2 B9 : 0	No	3
14	152 x 152 x 2mm Anodised silver engraved sign with Female Pictogram E11, fixed to wall or door. B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 1      B7 : 1      B8 : 0 B9 : 0	No	2
15	152 x 152 x 2mm Anodised silver engraved sign with Paraplegic Pictogram E14, fixed to wall or door. B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 0      B7 : 1      B8 : 0 B9 : 0	No	1

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No. 10  
Ironmongery

R

Item No	<b>SECTION NO. 2</b>	Quantity	Rate	Amount
	<p><b><u>BILL NO. 11METALWORK</u></b></p> <p>Key:                    Location Description:</p> <p>B1                    Block A            B2                    Block B            B3                    Block C            B4                    Block D            B5                    Block E            B6                    Girls Ablutions            B7                    Staff Ablutions            B8                    Boys Ablutions</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Descriptions</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE: All steel will be Hot dipped galvanised unless otherwise stated.</p> <p><b><u>SUNDRY BRASS WORK:</u></b></p> <p><b><u>Brass:</u></b></p>			
1	<p>4 x 30mm Weatherbar set in concrete flush with floor finish one side.</p> <p>          B1 : 3            B2 : 2            B3 : 2            B4 : 2                      B5 : 2            B6 : 0            B7 : 0            B8 : 0                      B9 : 0</p>	m	11	
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2            Bill No. 11            Metalwork</p>			

Brought Forward

R

**1,6mm galvanised double rebated frames with 1 pair of standard steel butt hinges suitable for half brick walls**

2	Frame for door 813 x 2032mm high	No	11
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 6      B7 : 3      B8 : 2		
	B9 : 0		

**1,6mm galvanised double rebated frames with 1 pair of standard steel butt hinges suitable for One brick walls**

3	Frame for door 813 x 2032mm high	No	4
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 1      B7 : 2      B8 : 1		
	B9 : 0		

**GALVANIZED STEEL WINDOW FRAMES**

**Standard Industrial windows with Type B2 burglar bars to fixed lights and opening sashes**

4	Window type "SS21", size 673 x 511mm high	No	18
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 8      B7 : 5      B8 : 5		
	B9 : 0		

5	Window type 4BH composite window, size 889 x 457mm high, with MBP2 burglar bars.	No	3
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 0      B7 : 2      B8 : 1		
	B9 : 0		

**GALVANIZED GATES**

**Hot Dipped Galvanised Steel Gates:**

Carried Forward

R

Section No. 2  
Bill No. 11  
Metalwork

**Brought Forward**

Note: The contractor is to check on site measurements before placing of order.

6	Entrance single gate size 925 x 2080mm high formed of 50 x 38 x 2.5mm hollow square section framing to detail, gate formed of 38 x 28 x 2.5mm rectangular hollow section frame with 25 x 25 x 2.5mm intermediates at 100mm centres at 45 degree angle and bolted to the wall, with 200mm locking bolt welded on as per the drawing attached to the back of the Bills of Quantities (G01)	No	17
	B1 : 4      B2 : 2      B3 : 2      B4 : 2		
	B5 : 3      B6 : 1      B7 : 2      B8 : 1		
	B9 : 0		

**CUPBOARDS**

**Approved standard epoxy powder coated finish lockers, etc. fixed in position strictly in accordance with the manufacturer's specification:**

7	Code CU10 Cupboard with four shelves and lockable double doors, size 900 x 450 x 1800mm high bolted to wall with four 6mm diameter expansion bolts.	No	13
	B1 : 4      B2 : 2      B3 : 2      B4 : 2		
	B5 : 3      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**WRITING BOARDS**

**Approved chalkboards to comply with CKS36:2004 Edition 4 standard specification:**

8	Vitreous enamel green steel chalk board size 1200 x 4800mm long overall of 2(no) board size 1200 x 2400mm and permanent anodised aluminium chalk rail moulded into board, plugged.	No	12
	B1 : 3      B2 : 2      B3 : 2      B4 : 2		
	B5 : 3      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No. 11  
Metalwork

R

R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 12PLASTERING</u></b>			
	Key:	Location Description:		
	B1	Block A		
	B2	Block B		
	B3	Block C		
	B4	Block D		
	B5	Block E		
	B6	Girls Ablutions		
	B7	Staff Ablutions		
	B8	Boys Ablutions		
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	<p>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>			
	<b><u>SCREEDS</u></b>			
	<b><u>3:1 Cement plaster screeds steel trowelled on concrete:</u></b>			
1	25mm thick on floors.	m2	673	
	B1 : 193    B2 : 98    B3 : 100    B4 : 100			
	B5 : 100    B6 : 26    B7 : 27    B8 : 30			
	B9 : 0			
	<b>Carried Forward</b>			R
	<p>Section No. 2            Bill No. 12            Plastering</p>			

Brought Forward		R
<p><b><u>Prepare and clean surface and apply 3-5mm "ABE" or similar approved self-levelling screed, in strict accordance with manufacturer's instructions, to form an even surface to receive vinyl tiles (elsewhere measured):</u></b></p>		
2	<p>On new screeded floors (Provisional).</p> <p>B1 : 193    B2 : 98    B3 : 100    B4 : 100                      B5 : 175    B6 : 0    B7 : 0    B8 : 0                      B9 : 0</p>	666
<p><b><u>4mm Polyurethane epoxy floor coating to SANS 10400 Part J4.2, all laid in accordance with Manufacturer's instructions</u></b></p> <p>Certificate of compliance will be required from the contractor</p>		
3	<p>On new screed floors.</p> <p>B1 : 0    B2 : 0    B3 : 0    B4 : 0                      B5 : 0    B6 : 26    B7 : 27    B8 : 30                      B9 : 0</p>	82
<p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Untinted grano</u></b></p>		
4	<p>40 mm Thick untinted grano finished with steel trowel to floors and landings</p> <p>B1 : 47    B2 : 20    B3 : 27    B4 : 27                      B5 : 28    B6 : 0    B7 : 0    B8 : 0                      B9 : 0</p>	149
<p><b><u>INTERNAL PLASTER</u></b></p> <p><b><u>Cement plaster on concrete walls:</u></b></p>		
5	<p>On walls.</p> <p>B1 : 15    B2 : 0    B3 : 0    B4 : 0                      B5 : 0    B6 : 87    B7 : 98    B8 : 58                      B9 : 0</p>	257
6	<p>In narrow widths.</p> <p>B1 : 2    B2 : 0    B3 : 0    B4 : 0                      B5 : 0    B6 : 3    B7 : 4    B8 : 2                      B9 : 0</p>	11
<p><b>Carried Forward to Summary of Section No. 2</b></p>		R
<p>Section No. 2                      Bill No. 12                      Plastering</p>		

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 13 TILING</u></b>			
	Key:	Location Description:		
	B1	Block A		
	B2	Block B		
	B3	Block C		
	B4	Block D		
	B5	Block E		
	B6	Girls Ablutions		
	B7	Staff Ablutions		
	B8	Boys Ablutions		
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	<p>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>			
	<u>Fixing:</u>			
	<p>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.</p>			
	<b><u>WALL TILING</u></b>			
	<b><u>300 x 200 White glazed A grade ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grouted with dove grey waterproof grout:</u></b>			
1	On splashbacks.	m2	4	
	B1 : 0	B2 : 0	B3 : 0	B4 : 0
	B5 : 0	B6 : 1	B7 : 2	B8 : 1
	B9 : 0			
	<b>Carried Forward</b>			R
	<p>Section No. 2  Bill No. 13  Tiling</p>			

Brought Forward

**Sundries:**

2 PVC external corner strip piece, fixed in accordance with manufacturer's instructions (Provisional).

B1 : 0      B2 : 0      B3 : 0      B4 : 0  
 B5 : 0      B6 : 9      B7 : 11      B8 : 4  
 B9 : 0

m

23

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 13  
 Tiling

R

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 14 PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
Key:	Location Description:		
B1	Block A		
B2	Block B		
B3	Block C		
B4	Block D		
B5	Block E		
B6	Girls Ablutions		
B7	Staff Ablutions		
B8	Boys Ablutions		
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
<p>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>			
<u>Copper pipes:</u>			
<p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p>			
<u>Chasing:</u>			
<p>Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing, wrapping in suitable bown paper and making good shall be included in the rates for pipes.</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>			

**Brought Forward**

R

Holes for pipes through new walls:

No allowance for holes and drilling for pipes through new walls has been made in these bills of quantities, the price for all holes and making good shall be deemed to be included in the description of pipes.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Description of pipes laid in trenches:

Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

Flush pans:

Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

**Carried Forward**

R

Section No. 2  
 Bill No. 14  
 Plumbing and Drainage

**Brought Forward**

R

Stainless steel basins, sinks, wash troughs, urinals, etc:

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

Fixing:

Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.

Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.

Waste unions:

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

Sleeve pipes:

Electrical sleeve pipes to be Class 34 and are to include for draw wires.

**SOIL DRAINAGE**

Excavations of pipe trenches will be measured in accordance with "Method B" and the width of excavations in more difficult material will be determined in accordance with "Method A" of the Standard System of Measuring Building Work Six Edition

**Manhole Covers, gulley traps, etc:**

1	Precast concrete cover slab size 1100 x 750 x 75mm thick, with R8 lifting lugs, including setting in position and all set on top of chamber (elsewhere measured).	No	2												
	<table border="0" style="width: 100%;"> <tr> <td>B1 : 0</td> <td>B2 : 0</td> <td>B3 : 0</td> <td>B4 : 0</td> </tr> <tr> <td>B5 : 0</td> <td>B6 : 0</td> <td>B7 : 0</td> <td>B8 : 2</td> </tr> <tr> <td>B9 : 0</td> <td></td> <td></td> <td></td> </tr> </table>	B1 : 0	B2 : 0	B3 : 0	B4 : 0	B5 : 0	B6 : 0	B7 : 0	B8 : 2	B9 : 0					
B1 : 0	B2 : 0	B3 : 0	B4 : 0												
B5 : 0	B6 : 0	B7 : 0	B8 : 2												
B9 : 0															
2	Ditto, but 1590 x 750mm.	No	4												
	<table border="0" style="width: 100%;"> <tr> <td>B1 : 0</td> <td>B2 : 0</td> <td>B3 : 0</td> <td>B4 : 0</td> </tr> <tr> <td>B5 : 0</td> <td>B6 : 4</td> <td>B7 : 0</td> <td>B8 : 0</td> </tr> <tr> <td>B9 : 0</td> <td></td> <td></td> <td></td> </tr> </table>	B1 : 0	B2 : 0	B3 : 0	B4 : 0	B5 : 0	B6 : 4	B7 : 0	B8 : 0	B9 : 0					
B1 : 0	B2 : 0	B3 : 0	B4 : 0												
B5 : 0	B6 : 4	B7 : 0	B8 : 0												
B9 : 0															
3	Ditto, but 1802 x 750mm.	No	3												
	<table border="0" style="width: 100%;"> <tr> <td>B1 : 0</td> <td>B2 : 0</td> <td>B3 : 0</td> <td>B4 : 0</td> </tr> <tr> <td>B5 : 0</td> <td>B6 : 0</td> <td>B7 : 3</td> <td>B8 : 0</td> </tr> <tr> <td>B9 : 0</td> <td></td> <td></td> <td></td> </tr> </table>	B1 : 0	B2 : 0	B3 : 0	B4 : 0	B5 : 0	B6 : 0	B7 : 3	B8 : 0	B9 : 0					
B1 : 0	B2 : 0	B3 : 0	B4 : 0												
B5 : 0	B6 : 0	B7 : 3	B8 : 0												
B9 : 0															

**Carried Forward**

R

Section No. 2  
 Bill No. 14  
 Plumbing and Drainage

Brought Forward		R
<b><u>Testing:</u></b>		
4	Testing drainage pipe system.	Item
<b><u>SANITARY FITTINGS</u></b>		
<b><u>"Atlas Plastics" or similar approved polyethylene fittings:</u></b>		
5	VIP 200 pit pedestal, size 370 x 500mm high (code: 223AP) with foot piece and VIP 200 inlet funnel (code: 224AP), inserted into precast concrete cover slab of pit (elsewhere specified) with a removable plug, with and including four 6mm diameter x 50mm long expansion bolts, including heavy duty white double flap seat fixed to pedestal.	No 12
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 6      B7 : 4      B8 : 2 B9 : 0	
6	Christy wash hand basin (code: 382AP) 570mm x 395mm wide, or equal approved, with 1 tapholes and 40mm waste outlet, plugged and screwed to the wall with galvanised screws and brackets.	No 9
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 4      B7 : 3      B8 : 2 B9 : 0	
7	"Atlas Plastics" or similar approved bowl urinal 320mm x 350mm x 495mm high with a 40mm waste outlet, plugged and screwed to the wall with galvanised screws and brackets.	No 4
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 0      B7 : 0      B8 : 4 B9 : 0	
<b><u>WASTE UNIONS ETC</u></b>		
<b><u>Waste unions etc:</u></b>		
8	40mm Code 306 chrome plated basin waste union.	No 13
	B1 : 0      B2 : 0      B3 : 0      B4 : 0 B5 : 0      B6 : 4      B7 : 3      B8 : 6 B9 : 0	
<b><u>TRAPS ETC</u></b>		
Carried Forward		R
Section No. 2 Bill No. 14 Plumbing and Drainage		

Brought Forward

R

**Traps etc:**

9	40 x 40 mm Reseal "P" or "S" trap	No	13
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 4      B7 : 3      B8 : 6		
	B9 : 0		

**TAPS, VALVES, ETC**

**Brushed finish brass steel:**

10	15mm mini ball valve (MXF 1030--15)	No	13
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 4      B7 : 3      B8 : 6		
	B9 : 0		

**Pillar taps:**

11	15mm Chrome plated code 211-15 pillar tap.	No	9
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 4      B7 : 3      B8 : 2		
	B9 : 0		

**SANITARY PLUMBING**

**uPVC piping (SABS 967-1987):**

12	40mm Waste piping fixed to walls.	m	50
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 15      B7 : 25      B8 : 10		
	B9 : 0		

13	110mm Ditto.	m	9
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 3      B7 : 3      B8 : 3		
	B9 : 0		

**Extra over uPVC piping for:**

14	40mm Bend.	No	10
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 5      B7 : 5      B8 : 0		
	B9 : 0		

**Testing:**

15	Testing waste water pipe system.		Item
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Carried Forward

R

Section No. 2  
 Bill No. 14  
 Plumbing and Drainage

Brought Forward

R

**WATER SUPPLIES**

**Class 2 medium copper pipes:**

16	15mm Pipe building into walls.	m	85
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 25      B7 : 35      B8 : 25		
	B9 : 0		

**Extra over class 2 copper pipes for brass compression fittings:**

17	15mm Fittings.	No	33
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 8      B7 : 15      B8 : 10		
	B9 : 0		

**Polypropylene pipes with thermoplastic couplings:**

18	15mm Pipes fixed to walls.	m	15
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 5      B7 : 5      B8 : 5		
	B9 : 0		

**Extra over polypropylene pipes for thermoplastic fittings:**

19	15mm Fittings.	No	6
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 2      B7 : 2      B8 : 2		
	B9 : 0		

**Testing:**

20	Testing water supply pipe system.	Item	
----	-----------------------------------	------	--

**Sundry work in connection with all plumbing:**

21	Form hole in 220mm brick wall not exceeding 100mm diameter including making good.	No	15
	B1 : 0      B2 : 0      B3 : 0      B4 : 0		
	B5 : 0      B6 : 5      B7 : 5      B8 : 5		
	B9 : 0		

**FIRE APPLIANCES ETC.**

Carried Forward

R

Section No. 2  
 Bill No. 14  
 Plumbing and Drainage

**Brought Forward**

**Portable fire extinguishers:**

22 4.5Kg carbondioxide portable chemical fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm Wrot Meranti backboard, size 250 x 500mm high with chamfered edges, varnish and fixed to wall.

B1 : 4      B2 : 2      B3 : 2      B4 : 2  
 B5 : 3      B6 : 0      B7 : 0      B8 : 0  
 B9 : 0

No

13

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 14  
 Plumbing and Drainage

R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 15GLAZING</u></b>			
	Key:	Location Description:		
	B1	Block A		
	B2	Block B		
	B3	Block C		
	B4	Block D		
	B5	Block E		
	B6	Girls Ablutions		
	B7	Staff Ablutions		
	B8	Boys Ablutions		
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	<p>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>			
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
	<b><u>6,38mm Normal strength clear laminated safety glass:</u></b>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2	18	
	B1 : 10      B2 : 0      B3 : 0      B4 : 0			
	B5 : 0      B6 : 3      B7 : 3      B8 : 2			
	B9 : 0			
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 15			
	Glazing			

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>BILL NO. 16 PAINTWORK</u></b>				
	Key:                      Location Description:			
	B1                      Block A			
	B2                      Block B			
	B3                      Block C			
	B4                      Block D			
	B5                      Block E			
	B6                      Girls Ablutions			
	B7                      Staff Ablutions			
	B8                      Boys Ablutions			
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<u>Proprietary products in descriptions:</u>				
<p>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>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p>				
<p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.</p>				
<b><u>PAINTWORK ETC TO NEW WORK</u></b>				
<b><u>ON FIBRE-CEMENT</u></b>				
<b><u>Prepare and apply two coats pure acrylic roof paint on:</u></b>				
1	Fascias and barge boards.	m2	195	
	B1 : 38      B2 : 25      B3 : 25      B4 : 25			
	B5 : 42      B6 : 13      B7 : 14      B8 : 12			
	B9 : 0			
<b>Carried Forward</b>				R
<p>Section No. 2  Bill No. 16  Paintwork</p>				

		Brought Forward		R
		<b><u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine and paint with two coats pva paint on:</u></b>		
2	Ceilings and cornices.	m2	743	
	B1 : 193    B2 : 98    B3 : 100    B4 : 100			
	B5 : 175    B6 : 26    B7 : 26    B8 : 25			
	B9 : 0			
		<b><u>Prepare and apply one coat universal primer, one undercoat and two coats superior quality eggshell enamel:</u></b>		
3	On sills.	m2	20	
	B1 : 6    B2 : 3    B3 : 3    B4 : 3			
	B5 : 5    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			
		<b><u>ON PLASTERED SURFACES</u></b>		
		<b><u>One coat merit plaster primer, one coat undercoat and two coats Wall and All paint according to manufacturers specification.</u></b>		
4	Internal walls.	m2	251	
	B1 : 0    B2 : 0    B3 : 0    B4 : 0			
	B5 : 0    B6 : 90    B7 : 102    B8 : 60			
	B9 : 0			
		<b><u>ON WOOD</u></b>		
		<b><u>Three coats exterior quality penetrating wood preservative.</u></b>		
5	Doors (all surfaces measured).	m2	70	
	B1 : 15    B2 : 0    B3 : 0    B4 : 0			
	B5 : 0    B6 : 26    B7 : 18    B8 : 11			
	B9 : 0			
		<b><u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u></b>		
6	Skirtings, rails, etc not exceeding 300mm girth.	m	373	
	B1 : 112    B2 : 56    B3 : 56    B4 : 56			
	B5 : 91    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			
		<b>Carried Forward</b>		R
Section No. 2				
Bill No. 16				
Paintwork				

Brought Forward

R

**PAINTWORK ETC TO PREVIOUSLY PAINTED SURFACES**

**ON PLASTERED SURFACES**

**Wash surface with polycell sugar soap, make good cracks and defects with polyfilla and spot prime with merit alkali resistant plaster primer (UC46) SABS 1416 and apply one coat universal undercoat SABS 681 Type two coats Wall and All paint according to manufacturers specification.**

7	Interior walls.	m2	957	
	B1 : 272    B2 : 151    B3 : 151    B4 : 151			
	B5 : 231    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			

8	Exterior walls.	m2	553	
	B1 : 176    B2 : 126    B3 : 0    B4 : 126			
	B5 : 126    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			

**ON BRICK SURFACES**

**Clean down with spirits of salts solution and apply two coats silicone-based brick dressing on:**

9	Facings (Externally).	m2	222	
	B1 : 0    B2 : 0    B3 : 126    B4 : 0			
	B5 : 96    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			

**ON METAL**

**Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised iron primer, one coat universal undercoat and finish with two coats super enamel paint on:**

10	On door frames	m2	5	
	B1 : 0    B2 : 0    B3 : 0    B4 : 0			
	B5 : 5    B6 : 0    B7 : 0    B8 : 0			
	B9 : 0			

Carried Forward

R

Section No. 2  
Bill No. 16  
Paintwork

Brought Forward

Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised iron primer, one coat universal undercoat and finish with two coats super enamel paint on:

11	Windows with burglar bars (both sides measured).	m2	210
	B1 : 55      B2 : 35      B3 : 35      B4 : 35		
	B5 : 50      B6 : 0      B7 : 0      B8 : 0		
	B9 : 0		

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 16  
 Paintwork

R

Item No	<b><u>BILL NO. 14 ELECTRICAL INSTALLATION</u></b>	Quantity	Rate	Amount
	<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<p><u>Proprietary products in descriptions:</u></p>			
	<p>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>			
	<b><u>REPLACEMENT OF ROOFS</u></b>			
	<p><b><u>Isolate, disconnect and make safe existing electrical installations to existing buildings, securing the power supply cable for re-use later</u></b></p>			
1	Supply	No	1	
2	Install	No	1	
	<p><b><u>Remove existing DB's, light fittings, switches, socket outlets, conduit and wiring to existing buildings which are to receive new roofing, and discard off site</u></b></p>			
3	Supply	No	1	
4	Install	No	1	
	<p><b><u>Supply and install new surface lockable SDB to classroom blocks complete with 32A DP MCB incomer, 2 x 10A SP MCB, 2 x 20A E/L and overload, 220V Class 2 surge arrestor, bus bars, neutral and earthbar, labelling, etc</u></b></p>			
5	Supply	No	6	
6	Install	No	6	
	<b>Carried Forward</b>			R
	<p>Section No. 2 Bill No. 17 Electrical Installation</p>			

Brought Forward			R
<b><u>Re-terminate existing supply cable to new SDB</u></b>			
7	Supply	No	6
8	Install	No	6
<b><u>Supply and install earthspike at new SDB</u></b>			
9	Supply	No	6
10	Install	No	6
<b><u>Supply and install 2x24W T8 type LED light fitting</u></b>			
11	Supply	No	50
12	Install	No	50
<b><u>Supply and install 2x18W type LED vapourprufe light fitting to Grade R varanda</u></b>			
13	Supply	No	3
14	Install	No	3
<b><u>Supply and install new surface 1L1W 16A light switch type Crabtree or simailar equal</u></b>			
15	Supply	No	14
16	Install	No	14
<b><u>Supply and install new surface 16A SSO type Crabtree or similar approved</u></b>			
17	Supply	No	30
18	Install	No	30
<b><u>Supply and install surface 20mm diameter pvc conduit complete with ends, bends, etc</u></b>			
19	Supply	No	500
20	Install	No	500
<b>Carried Forward</b>			R
Section No. 2			
Bill No. 17			
Electrical Installation			

Brought Forward			R
<b><u>Supply and install surface 50mm diameter PVC round box and lid for light fittings</u></b>			
21	Supply	No	67
22	Install	No	67
<b><u>Supply and install 1.5mmsq copper wiring for lighting and switch circuits</u></b>			
23	Supply	No	1 200
24	Install	No	1 200
<b><u>Supply and install 2.5mmsq copper wiring for socket outlet circuits</u></b>			
25	Supply	No	550
26	Install	No	550
<b><u>Bonding of new steel roof sheeting to earth spike, complete with 3m 25mm diameter surface Bosal galvanized conduit downpipe neatly saddled, 4m 16mmsq earth</u></b>			
27	Supply	No	24
28	Install	No	24
<b><u>NEW TOILET BLOCKS</u></b>			
<b><u>Supply and install 45A SP MCB in nearest SDB for supply to toilet blocks</u></b>			
29	Supply	No	1
30	Install	No	1
<b><u>Supply and install 6x3c ECC cabling from existing building SDB to new blocks</u></b>			
31	Supply	No	80
32	Install	No	80
<b><u>Terminate cable</u></b>			
33	Supply	No	6
Carried Forward			R
Section No. 2 Bill No. 17 Electrical Installation			

Brought Forward			R
34	Install	No	6
	<u>Supply and install 150x150 surface W/P box for cable termination to toilet blocks to accept the above cable</u>		
35	Supply	No	3
36	Install	No	3
	<u>Excavation, trenching and backfilling in earth, 600mm deep for above cable</u>		
37	Supply	m	65
38	Install	m	65
	<u>Supply and install 2x24W T8 type LED light fitting in toilet blocks</u>		
39	Supply	No	15
40	Install	No	15
	<u>Supply and install 1x20W bulkhead fitting with type LED lamp outside on new blocks</u>		
41	Supply	No	6
42	Install	No	6
	<u>Supply and install new flush1L1W 16A light switch type Crabtree or similar approved</u>		
43	Supply	No	8
44	Install	No	8
	<u>Supply and install flush 20mm diameter PVC conduit complete with ends, bends, etc</u>		
45	Supply	No	150
46	Install	No	150
	<u>Supply and install flush50mm diameter PVC round box and lid for light fittings</u>		
47	Supply	No	21
Carried Forward			R
Section No. 2			
Bill No. 17			
Electrical Installation			

Brought Forward			R
48	Install	No	21
	<u>Supply and install flush 100x50mm PVC box for light switch</u>		
49	Supply	No	8
50	Install	No	8
	<u>Supply and install 1.5mmsq copper wiring for lighting and switch circuits</u>		
51	Supply	No	400
52	Install	No	400
	<u>Bonding of new steel roof sheeting to earth spike, complete with 3m 25mm diameter surface Bosal galvanized conduit downpipe neatly saddled, 4m 16mmsq earth conductor , earthspike, and lugs complete</u>		
53	Supply	No	6
54	Install	No	6
	<b><u>COMPLIANCE CERTIFICATE</u></b>		
	<u>Provide compliance certificate by a registered electrician for entire school</u>		
55	Supply	No	1
56	Install	No	1
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2			
Bill No. 17			
Electrical Installation			

**SECTION SUMMARY - SECTION NO. 2 - BUILDING WORKS**

Bill No		Page No	Amount
1	Alterations (Provisional)	48	
2	Earthworks (Provisional)	53	
3	Concrete, Formwork and Reinforcement	58	
4	Masonry	64	
5	Waterproofing	65	
6	Roof Coverings Etc.	68	
7	Carpentry and Joinery	76	
8	Ceilings, Partitions and Access Flooring	78	
9	Floor Coverings, Wall Linings, Etc.	80	
10	Ironmongery	84	
11	Metalwork	87	
12	Plastering	89	
13	Tiling	91	
14	Plumbing and Drainage	98	
15	Glazing	99	
16	Paintwork	103	
17	Electrical Installation	108	
	<b>Carried to Final Summary</b>		R
	Section No. 2		

Item No	<b><u>SECTION NO. 3</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>DEMOLITIONS, BULK EARTHWORKS &amp; RETAINING WALLS</u></b>			
	<b><u>PREAMBLES</u></b>			
	The Tenderer is referred to the relevant Clauses in the document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<b><u>TEMPORARY BARRIERS, SCREENS, ETC</u></b>			
	<b><u>Temporary barriers, screens, etc including removal</u></b>			
1	Supply and erect any temporary tarpaulins, dust or weatherproof screens, hoardings and temporary access gates that may be necessary during the contract to the satisfaction of the Representative/Agent and remove when directed.	m	200	
2	Allow for watering the works by spraying to prevent any nuisance from dust, etc. and supply, erect and remove at completion all temporary dust screens, etc. required.		Item	
3	Allow for protecting all existing work liable to suffer damage (i.e. walls, finishes, floors, windows, etc.) from damage during the building operations, alterations, etc. and make good all work damaged with new material to match existing to the approval of the Director.		Item	
	<b><u>DEMOLITIONS</u></b>			
	<b><u>Demolish and make good</u></b>			
4	Asbestos roof covering including packaging and disposal as per the government regulations	m2	120	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Demolitions, Bulk Earthworks & Retaining Walls			

<b>Brought Forward</b>			R
5	Single storey ablution block with double pitched roof 4.8 x 3.2m on plan and 2.5m high at eaves comprising block walls and asbestos roof (removal of asbestos measured elsewhere).	No	2
6	Single storey ablution block with double pitched roof 6.5 x 3.2m on plan and 2.5m high at eaves comprising block walls and asbestos roof (removal of asbestos measured elsewhere).	No	1
7	Allow for de-sludging of existing pit latrines size 4.8 x 2.5 x 2m high by means of "honey sucker".	No	2
8	Ditto, but pit size 5 x 2.5 x 2m high.	No	1
9	Ditto, but pit size 6.5 x 2.5 x 2m high.	No	1
10	Allow for breaking down and removing from site entire pit latrine structure including any structure that may be inside the pit size 4.8 x 2.5 x 2m high. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). Backfill existing hole with imported filling in max 150mm layers and compact to 95% MOD AASHTO density.	No	2
11	Ditto, but pit size 5 x 2.5 x 2m high.	No	1
12	Ditto, but pit size 6.5 x 2.5 x 2m high.	No	1
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>Site clearance</u></b>			
13	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	350
14	Stripping layers of top soil and carting away off site to a dumping site to be located by the contractor	m3	16
<b><u>REMOVAL OF TREES ETC</u></b>			
<b><u>Cutting down and removing, grubbing up roots and filling in holes</u></b>			
15	Tree exceeding 1500mm and not exceeding 2000mm girth.	No	2
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 1			
Demolitions, Bulk Earthworks & Retaining Walls			

Brought Forward			R
<b><u>Open face excavation in earth over sloping site</u></b>			
16	Open face excavation to reduce levels	m3	380
<b><u>RETAINING WALLS</u></b>			
<b><u>Excavations, Filling, etc</u></b>			
17	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	53
18	Extra over excavations in earth to bases and trenches for excavation in soft rock	m3	5
19	Extra over excavations in earth to bases and trenches for excavation in hard rock.	m3	3
20	Extra over all excavations for carting away surplus excavated material.	m3	29
21	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density as backfilling to trenches, bases, etc.	m3	25
22	Imported G5 filling material, levelled, watered and compacted to 95% Modified AASHTO dry density	m3	8
<b><u>25 MPa/19 mm concrete</u></b>			
23	Strip footings cast against excavated surfaces	m3	15
<b><u>Brickwork</u></b>			
24	One brick walls including wire ties	m2	71
25	Ditto, but in foundations	m2	43
<b><u>Brickwork reinforcement:</u></b>			
26	150mm Wide reinforcement built in horizontally.	m	284
27	Ditto, but in foundations	m	667
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 1			
Demolitions, Bulk Earthworks & Retaining Walls			

<b>Brought Forward</b>			R
<b><u>Facebricks (FBS) "Country Classic" or similar approved pointed with square ruled recessed horizontal and vertical joints:</u></b>			
28	Extra over brickwork for face brickwork externally.	m2	142
29	Ditto, but in foundations	m2	43
<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>			
30	220mm Wide roller course to top of foundation walls bedded and jointed in cement mortar and pointed on top and one side as described.	m	71
<b><u>Agricultural Drains</u></b>			
31	Bidim U14 or other approved geofabric sheeting wrapped around stone filling of agricultural / subsoil drain.	m2	156
32	19mm stone around agricultural drain pipe (pipe elsewhere measured)	m3	6
33	100mm Diameter agricultural drainpipe laid to falls	m	71
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 1			
Demolitions, Bulk Earthworks & Retaining Walls			

Item No	<b><u>SECTION NO. 3</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 2</u></b>			
	<b><u>WALKWAYS AND RAMPS</u></b>			
	<b><u>PREAMBLES</u></b>			
	The Tenderer is referred to the relevant Clauses in the document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<b><u>WALKWAYS, STEPS AND RAMPS</u></b>			
	<b><u>Excavations, Filling, Etc.</u></b>			
1	Excavate in earth to reduce levels under paving areas.	m3	25	
2	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	2	
3	Extra over excavations in earth to bases and trenches for excavation in soft rock	m3	3	
4	Extra over excavations in earth to bases and trenches for excavation in hard rock.	m3	2	
5	Extra over all excavations for carting away surplus excavated material.	m3	27	
6	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	5	
7	G5 filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% mod AASHTO density as backfilling to trenches, etc.	m3	2	
8	G5 filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% mod AASHTO density under floors.	m3	20	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 2 Walkways and Assembly Area			

Brought Forward			R
9	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	165
<b><u>TESTING</u></b>			
10	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	5
<b><u>Keeping excavations free of water</u></b>			
11	Keeping excavations free of all water other than subterranean water		Item
<b><u>Soil insecticide</u></b>			
12	Under floors, etc including forming and poisoning shallow furrows against foundation walls, surface beds, etc and filling in furrows and ramming	m2	165
<b><u>PAVING ON WALKWAYS</u></b>			
<b><u>20 MPa/20mm concrete:</u></b>			
13	Strip footings	m3	2
14	Aprons cast in panels.	m3	37
15	Paving surface beds cast in panels.	m3	24
16	Steps.	m3	1
17	Ramps.	m3	3
<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>			
18	Surface beds to falls.	m2	165
<b><u>MOVEMENT JOINTS ETC</u></b>			
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces:</u></b>			
19	10mm Joints not exceeding 300mm high (Provisional).	m	54
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 2			
Walkways and Assembly Area			

<b>Brought Forward</b>		R
<b><u>Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:</u></b>		
20	10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary (Provisional).	54
<b><u>Smooth Formwork to Sides:</u></b>		
21	Edges, risers, ends and reveals not exceeding 300mm high or wide.	189
<b><u>Fabric reinforcement:</u></b>		
22	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	165
<b>Carried Forward to Summary of Section No. 3</b>		R
Section No. 3		
Bill No. 2		
Walkways and Assembly Area		

Item No	<b><u>SECTION NO. 3</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 3</u></b>			
	<b><u>STORMWATER DRAINAGE</u></b>			
	<b><u>PREAMBLES</u></b>			
	The Tenderer is referred to the relevant Clauses in the document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<b><u>(20 MPa) open stormwater channels with V-shaped waterway formed in top, finished smooth on all exposed surfaces</u></b>			
1	900 x 150mm open concrete stormwater channel with 860 x 60mm deep 'V' channel with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 3,0m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound on suitable 150mm subbase material compacted to 93% Mod A.A.S.H.T.O. density, including all necessary excavations, 250 micron dpm, formwork, compaction, grading, carting away, etc.	m	131	
2	Extra over channel for angles, intersections, ends, etc.	No	5	
3	Extra over for widening concrete to form spreader 1800mm wide extreme for a length of 600mm and bedding 120mm stone pitching in concrete spaced at 200mm centre spacings to falls including brushing concrete between stones.	No	5	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 3 Stormwater Drainage			

<b>Brought Forward</b>			R
4	Reno mattress size 2000 x 1000 x 300mm high filled with rocks varying from 75 to 150mm diameter, including ground preparation, bidum, excavation, etc.	No	5
<b><u>Stormwater Cut Off Drain</u></b>			
5	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	302
6	Topsoil filling selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density as backfilling to gullies, etc.	m3	90
7	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density as backfilling to trenches, bases, etc.	m3	300
8	Reinforced concrete (20MPa) in drain linings.	m3	4
9	Ref 193 mesh reinforcement	m2	48
10	Gabion mattress drain lining 150mm thick filled with rocks varying from 75 to 150mm diameter, including ground preparation	m3	65
11	Bidum membrane A2 drain lining laid under gabion mattresses	m2	460
12	Gabion rocks supplied by contractor as backfilling to gullies	m3	273
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 3			
Stormwater Drainage			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATER RETICULATION</u></b>			
	<b><u>PREAMBLES</u></b>			
	The Tenderer is referred to the relevant Clauses in the document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<b><u>TANKS AND STANDS</u></b>			
	<b><u>Excavations, Filling, Etc.</u></b>			
1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	92	
2	Extra over excavations in earth to trenches for excavation in soft rock	m3	9	
3	Extra over excavations in earth to trenches for excavation in hard rock.	m3	5	
4	Extra over all excavations for carting away surplus excavated material.	m3	49	
5	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	264	
6	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density as backfilling to trenches, bases, etc.	m3	43	
7	G5 filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% mod AASHTO density under floors, etc.	m3	25	
8	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	99	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 4 Water Reticulation			

Brought Forward			R
9	Keeping excavations free of all water other than subterranean water	Item	
10	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	11
	<b><u>25MPa/20mm concrete:</u></b>		
11	Strip footings cast against excavated surfaces	m3	23
12	Surface beds, etc.	m3	15
	<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>		
13	Surface beds to falls.	m2	99
	<b><u>Smooth formwork to edges</u></b>		
14	Formwork to edge of slab not exceeding 150 mm high	m	132
	<b><u>Fabric reinforcement:</u></b>		
15	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	99
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>		
16	One brick walls.	m2	132
	<b><u>Brickwork reinforcement:</u></b>		
17	150mm Wide reinforcement built in horizontally.	m	1 320
	<b><u>Facebricks (FBS) "Country Classic" or similar approved pointed with square ruled recessed horizontal and vertical joints:</u></b>		
18	Extra over brickwork for face brickwork externally.	m2	66
	<b><u>One layer of 250 micron waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>		
19	Under surface beds.	m2	99
Carried Forward			R
Section No. 3 Bill No. 4 Water Reticulation			

<b>Brought Forward</b>			R
<b><u>Locks, etc.</u></b>			
20	75mm diameter x 174mm long tap lock	No	16
21	30mm Approved brass padlock.	No	16
<b><u>Tanks, etc.</u></b>			
22	5000 Litre plastic seamless water storage tank complete with fixing lugs and lid, set in position on concrete tank stand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire and embedded into concrete. (Note: tanks to be filled with water before Practical Completion).	No	8
23	Ditto, but low profile 5000 Litre tank	No	3
24	"Cobra" or similar approved RB hose bip tap (208-20) with a 3/4 hose union	No	16
25	Hole through top of tank lid for 100mm diameter pipe.	No	11
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 4			
Water Reticulation			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>Excavations, Filling, Etc.</u></b>			
1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	38	
2	Extra over excavations in earth to bases and trenches for excavation in soft rock	m3	4	
3	Extra over excavations in earth to bases and trenches for excavation in hard rock.	m3	2	
4	River sand filling, selected and supplied, deposited, watered and consolidated under pipes, etc.	m3	11	
5	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density as backfilling to trenches, bases, etc.	m3	17	
	<b><u>Supply, lay, joint, bed on class B bedding and test pipeline: SABS 1601-400 kPa Maincore or similar approved pipes</u></b>			
6	110mm diameter pipes laid in and including trenches not exceeding 1m deep	m	75	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
7	110mm Access junction	No	2	
	<b><u>The following in french drain soakaway 5m long</u></b>			
8	<u>Excavate in earth not exceeding 2 m deep for french drain soakaway</u>	m3	4	
9	Allow for baling and pumping		Item	
10	Allow for risk of collapse of side of trench excavations not exceeding 1.5m deep	m2	14	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 5 Soil Drainage			

<b>Brought Forward</b>			R
11	Topsoil carted on top of Bidum (elsewhere) spread and levelled	m3	1
12	Imported 20 - 100mm diameter well mixed quarry dump rock fill in french drain soakaway	m3	3
13	Bidum U24 membrane laid in french drain soakaway	m2	16
14	110mm diameter perforated agricultural piping laid in french drain soakaway	m	5
15	110mm diameter pipes laid in soakaways	m	1
16	Extra over for 110mm diameter end cap.	No	2
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 5			
Soil Drainage			

**SECTION SUMMARY - SECTION NO 3 - EXTERNAL WORKS**

Bill No		Page No	Amount
1	Demolitions, Bulk Earthworks & Retaining Walls	113	
2	Walkways and Assembly Area	116	
3	Stormwater Drainage	118	
4	Water Reticulation	121	
5	Soil Drainage	123	
<b>Carried to Final Summary</b>			
Section No. 3			R

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 5</u></b></p>			
<p><b><u>BILL NO. 1</u></b></p>			
<p><b><u>PROVISIONAL SUMS AND BUDGETARY ALLOWANCES</u></b></p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>General</u></b></p>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p><b><u>Profit</u></b></p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
<p><b><u>Attendance upon nominated/selected subcontractors</u></b></p>			
<p>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 4 Bill No. 1 Provisional Sums</p>			
			R

**Brought Forward**

**Community Liaison Officer**

1 Provide the sum of R100 000.00 (One Hundred and Thousand Rands) at R10 000/month for C.L.O, to be used at the discretion of the Representative/Agent and deducted in whole or in part if not required:

Item 100 000.00

2 Profit

Item

3 Allow for general attendance

Item

**Asbestos Inspection Authority**

4 Provide the sum of R100 000.00 (One Hundred and Thousand Rands) at R10 000/month for C.L.O, to be used at the discretion of the Representative/Agent and deducted in whole or in part if not required:

Item 100 000.00

5 Profit

Item

6 Allow for general attendance

Item

**Carried to Final Summary**

R

R

Section No. 4  
 Bill No. 1  
 Provisional Sums

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION NO 1 - PRELIMINARIES	42	
2	SECTION NO. 2 - BUILDING WORKS	109	
3	SECTION NO 3 - EXTERNAL WORKS	124	
4	SECTION NO 4 - PROVISIONAL AMOUNTS	126	
	SUB-TOTAL		R
	<b><u>CONTINGENCIES</u></b>		
	Allow 5% Contingency Amount for the unforeseen and the sum provided is under the sole control of the client and upon approval by the Employer and deducted in whole or in part.	Item	
	SUB-TOTAL		R
	<b>Add Value Added Tax at the rate of 15%</b>		R
	<b>Carried to Form of Offer and Acceptance</b>		R