

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 align="center"><b>Carried Forward</b></p>			
<p>Section No. 1 Bill No. 1 Preliminaries</p>			
		R	

<p><b>Brought Forward</b></p> <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>	<p>R</p>
<p><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p>R</p>

**Brought Forward**

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**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

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**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:

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**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

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<p style="text-align: center;"><b>Brought Forward</b></p> <p>(b) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person, arising out of or in the course of or by reason of the execution of the <b>works</b> unless due to any act or neglect of any person for whose actions the <b>employer</b> is legally liable</p> <p>(c) The <b>contractor</b> shall, upon receiving a <b>contract instruction</b> from the <b>principal agent</b>, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the <b>employer</b> shall be entitled to cause it to be made good and to recover the cost thereof from the <b>contractor</b> or to deduct the same from amounts due to the <b>contractor</b></p> <p>(d) The <b>contractor</b> shall be responsible for the protection and safety of such portions of the premises placed under his control by the <b>employer</b> for the purpose of executing the <b>works</b> until the issue of the <b>certificate of practical completion</b></p> <p>(e) Where the execution of the <b>works</b> 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 <b>contractor</b> 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 <b>works</b> has been completed</p> <p>(f) The <b>contractor</b> 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 <b>works</b></p>	<p style="text-align: center;">R</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**

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**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

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<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
<b>Carried Forward</b>	R
<p>Section No. 1 Bill No. 1 Preliminaries</p>	



<p style="text-align: center;"><b>Brought Forward</b></p> <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>		R	
<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>14.3.2 Within twenty one (21) <b>calendar days</b> of the date of <b>practical completion</b> of the <b>works</b> the <b>employer</b> shall reduce the cash deposit to an amount equal to three per cent (3%) of the <b>contract value</b> (excluding VAT), and refund the balance to the <b>contractor</b></p> <p>14.3.3 Within twenty one (21) <b>calendar days</b> of the date of <b>final completion</b> of the <b>works</b> the <b>employer</b> shall reduce the cash deposit to an amount equal to one per cent (1%) of the <b>contract value</b> (excluding VAT) and refund the balance to the <b>contractor</b></p> <p>14.3.4 On the date of payment of the amount in the final <b>payment certificate</b>, the <b>employer</b> shall refund the remainder of the cash deposit to the <b>contractor</b></p> <p>14.3.5 The <b>employer</b> shall be entitled to recover expense and loss from the cash deposit 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 cash deposit <b>security</b> or portions thereof to the <b>contractor</b></p> <p>14.3.6 The parties expressly agree that neither the <b>employer</b> nor the <b>contractor</b> shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where <b>security</b> as a variable construction guarantee of ten percent (10%) of the <b>contract sum</b> (excluding VAT) has been selected:</p> <p>14.4.1 The <b>contractor</b> shall furnish the <b>employer</b> with an acceptable variable construction guarantee 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>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</p> <p>14.4.3 The <b>employer</b> shall return the variable construction guarantee to the <b>contractor</b> within fourteen (14) <b>calendar days</b> of it expiring</p> <p>14.4.4 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> shall issue a written demand in terms of the variable construction guarantee</p>			
<b>Carried Forward</b>		R	
<p>Section No. 1                      Bill No. 1                      Preliminaries</p>			

<b>Brought Forward</b>	R
<p>14.5 Where <b>security</b> as a fixed construction guarantee of five per cent (5%) of the <b>contract sum</b> (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The <b>contractor</b> shall furnish a fixed construction guarantee to the <b>employer</b> equal in value to five per cent (5%) of the <b>contract sum</b> (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of <b>practical completion</b></p> <p>14.5.3 The <b>employer</b> shall return the fixed construction guarantee to the <b>contractor</b> within fourteen (14) <b>calendar days</b> of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a <b>payment certificate</b> shall be in terms of 31.8 (A) and 34.8</p> <p>14.5.5 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> 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</p> <p>14.6 Where <b>security</b> as a cash deposit of five per cent (5%) of the <b>contract sum</b> (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the <b>payment certificate</b> (excluding VAT) has been selected:</p> <p>14.6.1 The <b>contractor</b> shall furnish the <b>employer</b> with a cash deposit equal in value to five per cent (5%) of the <b>contract sum</b> (excluding VAT) within twenty one (21) <b>calendar days</b> from <b>commencement date</b></p> <p>14.6.2 Within twenty one (21) <b>calendar days</b> of the date of <b>practical completion</b> of the <b>works</b> the <b>employer</b> shall refund the cash deposit in total to the <b>contractor</b></p> <p>14.6.3 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 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>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>	Item		
<b><u>EXECUTION</u></b>			
<b>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</b>			
Clause 15.0			
Clause 15.1.1 is amended by replacing it with:			
No Clause			
<b>Carried Forward</b>		R	
<p>Section No. 1                  Bill No. 1                  Preliminaries</p>			

<b>Brought Forward</b>	R
<p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty one (21) <b>calendar days</b> of <b>commencement date</b></p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the <b>contractor</b> possession of the <b>site</b> within ten (10) <b>working days</b> of the <b>contractor</b> complying with the terms of 15.1.2 and 15.1.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
<p><b>A16.0 ACCESS TO THE WORKS</b></p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<p><b>A17.0 CONTRACT INSTRUCTIONS</b></p> <p>Clause 17.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<p><b>A18.0 SETTING OUT OF THE WORKS</b></p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<p><b>A19.0 ASSIGNMENT</b></p> <p>Clause 19.0</p> <p>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>	<b>R</b>
<p><b>A20.0 NOMINATED SUB-CONTRACTORS</b></p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No Clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item
<p><b>A21.0 SELECTED SUBCONTRACTORS</b></p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No Clause</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item
<p><b>A22.0 EMPLOYER'S DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item
<p><b>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Clause 23.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 1 Bill No. 1 Preliminaries</p>	

<b>Brought Forward</b>		<b>R</b>	
<u>COMPLETION</u>			
<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			

<b>Brought Forward</b>		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	
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<b>Brought Forward</b>	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>	R
<b>Carried Forward</b>	R
<p>Section No. 1 Bill No. 1 Preliminaries</p>	Item

<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

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**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

R

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<b>Brought Forward</b>	<b>R</b>
<p><b>A40.0 DISPUTE SETTLEMENT</b></p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing “one (1) year” with “three (3) years”</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing “(10)” with “(15)” and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p> <p><b>A41.0 STATE CLAUSES</b></p> <p>Clause 41.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CONTRACT VARIABLES</u></p> <p><u>THE SCHEDULE (DPW04EC)</u></p> <p><b>A42.0 PRE-TENDER INFORMATION</b></p> <p>Clause 42.0</p> <p>Tenderers are referred to the Contact Variables and Notes to Tenderers (EC) for variables pertaining to this contract</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	<p>Item</p> <p>Item</p> <p>Item</p>
<b>Carried Forward</b>	<b>R</b>
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<b>Brought Forward</b>		<b>R</b>	
<b><u>SECTION B: JBCC PRELIMINARIES</u></b>			
<b>B1.0 DEFINITIONS AND INTERPRETATION</b>			
<i>B1.1 Definitions and interpretation</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<b>B2.0 DOCUMENTS</b>			
<i>B2.1 Checking of documents</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<i>B2.2 Provisional bills of quantities</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<i>B2.3 Availability of construction documentation</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<i>B2.4 Interests of agents</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<i>B2.5 Priced documents</i>			
Fixed: _____ Value related: _____ Time related: _____	Item		
<i>B2.6 Tender submission</i>			
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>Carried Forward</b>		<b>R</b>	
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<b>Brought Forward</b>		<b>R</b>	
<b>B3.1 Defined works area</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.2 Geotechnical investigation</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.3 Inspection of the site</b>			
Tenderers shall complete the Site Inspection Certificate (DW16 EC) included in the tender documents and return the same with the tender submission.			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.4 Existing premises occupied</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.5 Previous work - dimensional accuracy</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.6 Previous work - defects</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.7 Services - known</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.8 Services - unknown</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.9 Protection of trees</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>Carried Forward</b>		<b>R</b>	
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<b>Brought Forward</b>		<b>R</b>	
<b>B3.10 Articles of value</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B3.11 Inspection of adjoining properties</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B4.0 MANAGEMENT OF CONTRACT</b>			
<b>B4.1 Management of the works</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B4.2 Programme for the works</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B4.3 Progress meetings</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B4.4 Technical meetings</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B4.5 Labour and plant records</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</b>			
<b>B5.1 Samples of materials</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B5.2 Workmanship samples</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>Carried Forward</b>			
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			<b>R</b>



<b>Brought Forward</b>		<b>R</b>	
<b>B5.3 Shop drawings</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<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>Carried Forward</b>		<b>R</b>	
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<b>Brought Forward</b>	R
<p><b>B7.2 Water</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
<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>	
<b>Carried Forward</b>	R
<p>Section No. 1 Bill No. 1 Preliminaries</p>	

<b>Brought Forward</b>		<b>R</b>	
<b>B10.1 Statutory taxes, duties and levies</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B10.2 Payment for preliminaries</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B10.3 Adjustment of preliminaries</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B10.4 Payment certificate cash flow</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.0 GENERAL</b>			
<b>B11.1 Protection of the works</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.2 Protection / isolation of existing / sectionally occupied works</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.3 Security of the works</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.4 Notice before covering work</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.5 Disturbance</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>Carried Forward</b>			
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<b>Brought Forward</b>		<b>R</b>	
<b>B11.6 Environmental disturbance</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.7 Works cleaning and clearing</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.8 Vermin</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.9 Overhand work</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.10 Instruction manuals and guarantees</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.11 As built information</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B11.12 Tenant installations</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<b>B12.0 SCHEDULE OF VARIABLES</b>			
<b>B12.1 Pre-tender information</b>			
Fixed: _____ Value related: _____ Time related: _____		Item	
<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>			
<b>Carried Forward</b>		<b>R</b>	
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<b>Brought Forward</b>	<b>R</b>
<p>Spaces requiring information must be filled in, shown as “not applicable” or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the <b>schedule</b>. Key cross reference clauses are italicised in [ ] brackets</p> <p><b>12.1 PRE TENDER INFORMATION</b></p> <p><b>12.1.1 Provisional Bills of Quantities</b>  <i>[2.2] The quantities are provisional</i>                      No</p> <p><b>12.1.2 Availability of construction documentation</b>  <i>[2.3] Construction documentation is complete</i>                      Yes</p> <p><b>12.1.3 Interests of agents</b>  <i>[2.4] Details:</i>                      Nil</p> <p><b>12.1.4 Defined works area</b>  <i>[3.1] Details:</i>    <i>The work area will be pointed out by the principal agent to the contractor who will sign a written acknowledgement therefore before commencing operations.</i></p> <p><b>12.1.5 Geotechnical investigation</b>  <i>[3.2] Details: Not available</i></p>	R
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 1                      Bill No. 1                      Preliminaries</p>	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>12.1.6 <b>Existing premises occupied</b> [3.4] Specific requirements:</p> <p>Yes.</p> <p>12.1.7 <b>Previous work - dimensional accuracy</b> [3.5] Details:</p> <p><i>Not applicable.</i></p> <p>12.1.8 <b>Previous work - defects</b> [3.6] Details:</p> <p>12.1.9 <b>Services - known</b> [3.7] Details:</p> <p><i>Should the <b>contractor</b> encounter any existing services such as underground cables, pipes or sewer during the execution of the <b>works</b> he shall notify the <b>principal agent</b> immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the <b>principal agent</b>.</i></p> <p>12.1.10 <b>Protection of trees</b> [3.9] Specific requirements:</p> <p><i>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.</i></p> <p>12.1.11 <b>Inspection of adjoining properties</b> [3.11] Specific requirements:</p> <p><i>The <b>contractor</b> shall make his own arrangements with owners of adjoining properties in order to execute the <b>works</b>.</i></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	

**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.*

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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
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>12.1.23 <b>Disturbance</b>                  [11.5] Specific requirements:   <i>The <b>contractor</b> shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the <b>works</b> all necessary temporary dust screens all to the satisfaction of the <b>principal agent</b></i></p> <p>12.1.24 <b>Environmental disturbance</b>                  [11.6] Specific requirements:</p> <p>12.2 <b>POST-TENDER INFORMATION</b></p> <p>12.2.1 <b>Payment of preliminaries</b>                  [10.2] Option A (pro-rated) (Yes/No)                  Option B (calculated) (Yes/No)</p> <p>12.2.2 <b>Adjustment of preliminaries</b>                  [10.3] Option A (three categories) (Yes/No)                  Option B (detailed breakdown) (Yes/No)</p> <p>12.2.3 <b>Additional agreed preliminaries items</b>                  Details:</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1                  Bill No. 1                  Preliminaries</p>		R	
		R	

<b>Brought Forward</b>		<b>R</b>	
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>			
<p><b>Section C</b> contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p>			
<b>C1</b>	<b>CONTRACT DRAWINGS</b>		
<p>The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed</p> <p>Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
<b>C2</b>	<b>GENERAL PREAMBLES</b>		
<p>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 <b>bills of quantities</b> and be referred to for the full descriptions of work to be done and materials to be used</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
<b>C3</b>	<b>TRADE NAMES</b>		
<p>Wherever a trade name for any product has been described in the <b>bills of quantities</b>, 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 <b>principal agent</b> being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
<b>Carried Forward</b>		<b>R</b>	
<p>Section No. 1  Bill No. 1  Preliminaries</p>			

<b>Brought Forward</b>		R
<p><b>C4 IMPORTED MATERIALS AND EQUIPMENT</b></p> <p>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)</p> <p>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)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<p><b>C5 - C9 SECURITY CLAUSES</b></p> <p>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.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>Carried Forward</b>		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>CONTRACT VARIABLES</u></b></p> <p><b><u>THE SCHEDULE</u></b></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.</p> <p><b>41.0 PRE-TENDER INFORMATION</b></p> <p><b>41.1 CONTRACTING AND OTHER PARTIES</b></p> <p><b>41.1.1 Employer:</b>        <i>Department of Public Works</i></p> <p>Postal address: <i>Private Bag x 00224</i>  <i>Bisho</i>  <i>Code: 5605</i></p> <p>Tel: <i>(040) 602 4000</i>      Fax: <i>(080) 086 4951</i></p> <p>[1.2] Physical address: <i>Qhasana Building</i>  <i>Independence Avenue</i>  <i>Bisho</i>  <i>Code: 5605</i></p> <p><b>41.2 CONTRACT DETAILS</b></p> <p><b>41.2.1 Works description :</b></p> <p><i>The Works comprises of the construction of:</i></p> <p><i>1 x New Admin block; Dining Nutrition Centre; 6 x New Classrooms; 1 x Multi-purpose class and store rooms; 1 x Science Lab and storerooms; 1 x Library Media centre with storerooms; 16 x Pit Toilets; Platforms; Courtyard; Assembly Area; 11 x Parking bays; Walkways; Elevated tank; Water Pump station; Septic tanks and french drains; Security Fence, Entrance gate and refuse room</i></p> <p><b>41.2.2 Site description :</b></p> <p><i>Grassed, very gently sloping site</i></p> <p><i>Refer to clause 7 of the "Notes To Tenderers" for location</i></p>	<p>R</p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          Preliminaries</p>	<p>R</p>	

	<b>Brought Forward</b>	R	
41.2.3 Work or installations by <b>direct contractors</b> : [22.2] N/A			
41.2.4 Specific options that are applicable to a <b>State organ</b> [41.0] only			
Where so: [31.11.2#] (1) Interest rate legislation <i>Will be in terms of the legislation of the Republic of South Africa</i>			
[11.2#] (2) Lateral support insurance to be effected by the <b>contractor</b> N/A			
[31.4.2#] (3) Payment will be made for <b>materials and goods</b> Yes			
[40.2.2#] (4) Dispute resolution by litigation Yes			
[26.1.2#] (5) Extended <b>defects</b> liability period applicable to the following elements:			
41.2.5 Possession of the <b>site</b> is intended to be given on [15.2.1#] <i>To be announced</i>			
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>			
	<b>Carried Forward</b>	R	
Section No. 1 Bill No. 1 Preliminaries			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>41.2.7 For the <b>works</b> as a whole:</p> <p>[24.3.1] The date for <b>practical completion</b>:  <b>18 Months</b> after the commencement date of tender inclusive of all statutory and builders holidays</p> <p>[30.1] The <b>penalty</b> per <b>calender day</b>:  <b>1.75cents per R100.00</b> of the contact sum (exclusive of VAT) per calender day</p> <p>41.2.8 For the <b>works</b> in sections: N/A</p> <p style="text-align: center;"><b>Section 1</b></p> <p>[24.3.1] The date for <b>practical completion</b>:</p> <p>[28.1] The <b>penalty</b> per <b>calender day</b>:</p> <p style="text-align: center;"><b>Section 2</b></p> <p>[24.3.1] The date for <b>practical completion</b>:</p> <p>[28.1] The <b>penalty</b> per <b>calender day</b>:</p> <p style="text-align: center;"><b>Section 3</b></p> <p>[24.3.1] The date for <b>practical completion</b>:</p> <p>[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><b>41.3 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>For the sum of  <b>Contract sum</b> plus 20 percent</p> <p>With a deductible of  <i>To be paid by the contactor in any event</i></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1  Bill No. 1  Preliminaries</p>		R	

<b>Brought Forward</b>	<b>R</b>
41.3.2 Supplementary insurance is required [10.1#, 10.2#, 12.1#] <i>Yes, SASRIA by the <b>contractor</b></i>	
41.3.3 Public liability insurance to be effected by [11.1#, 12.1#] <b>Contractor</b>	
For the sum of <i>R 5,000,000.00 (Five Million Rand)</i>	
With a deductible of <i>To be paid by the contactor in any event</i>	
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#] <i>Yes</i>	
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] <i>to be submitted within <b>working days</b></i> <i>5 (Five)</i>	
42.4.5 <b>JBCC</b> Engineering General Conditions are to be [3.4] included in the <b>contract documents</b> <i>Not applicable</i>	
<b>Carried Forward</b>	<b>R</b>
Section No. 1 Bill No. 1 Preliminaries	

	<b>Brought Forward</b>		R
<p>42.4.6 The contract value is to be adjusted using <b>CPAP</b>                      [31.5.3] indices                      Yes</p>			
<p>[32.13] Where <b>CPAP</b> is to be used, base month is                      TBC</p> <p style="padding-left: 40px;">Alternative Indices <i>(if applicable)</i></p>			
<p>42.4.7 Details of changes made to the provisions of                      JBCC                      [3.10] standard documentation</p>			
<p>42.4.8 Clause A31 has been amended to read that                      payment                      [A31] be made within 30 days.</p>			
<p>Section No. 1                      Bill No. 1                      Preliminaries</p>	<b>Carried to Final Summary</b>		R



Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

**BILL NO. 1**

**EARTHWORKS (PROVISIONAL)**

Key:                      Location Description:

- A                      Admin Block
- B                      2 Classroom Block
- C                      Dining & Nutrition
- D                      Science Lab & Media Centre
- E                      Multi-purpose + 1 Class
- F                      4 Classroom Block
- G                      Grade R Classroom
- H                      Grade R Ablutions
- I                      Girls Ablutions
- J                      Boys Ablutions
- K                      Guard House
- L                      Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Nature of material to be excavated:

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".

Carting away of excavated material:

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.

**Carried Forward**

R

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

<b>Brought Forward</b>		R
<u>Dewatering of excavations:</u>		
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.		
<u>Density testing on filling:</u>		
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.		
<u>Imported fill:</u>		
"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"		
<b><u>EARTHWORKS</u></b>		
<b><u>Excavations, Filling, Etc.</u></b>		
1	Excavate in earth for surface trenches not exceeding 2000mm deep. A : 73      B : 70      C : 91      D : 101 E : 75      F : 101      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m3      511
2	Extra over excavations in earth to bases and trenches for excavation in soft rock A : 8      B : 6      C : 9      D : 10 E : 8      F : 10      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m3      51
3	Extra over excavations in earth to bases and trenches for excavation in hard rock. A : 4      B : 3      C : 5      D : 5 E : 4      F : 5      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m3      26
<b>Carried Forward</b>		R
Section No. 2 Bill No. 1 Earthworks (Provisional)		

<b>Brought Forward</b>						R
4	Extra over all excavations for carting away surplus excavated material.	m3	261			
	A : 59      B : 0      C : 48      D : 58					
	E : 43      F : 53      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
5	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	1,452			
	A : 209      B : 192      C : 260      D : 288					
	E : 215      F : 288      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
6	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	185			
	A : 16      B : 3      C : 43      D : 43					
	E : 32      F : 47      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
7	Ditto, but under floors, etc.	m3	513			
	A : 79      B : 65      C : 83      D : 103					
	E : 74      F : 109      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
8	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 50mm thick blinding layer under floors, etc.	m3	73			
	A : 11      B : 9      C : 12      D : 15					
	E : 11      F : 15      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
9	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	1,518			
	A : 226      B : 204      C : 238      D : 294					
	E : 213      F : 343      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b>Carried Forward</b>						R
Section No. 2						
Bill No. 1						
Earthworks (Provisional)						

**Brought Forward**

R

**TESTING**

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

62

A : 12      B : 6      C : 12      D : 12  
 E : 8      F : 12      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**Keeping excavations free of water**

11 Keeping excavations free of all water other than subterranean water

Item

**SOIL POISONING**

**Soil insecticide**

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

m2

3,066

A : 508      B : 396      C : 589      D : 683  
 E : 526      F : 364      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

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

R

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

Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

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

Key:	Location Description:
A	Admin Block
B	2 Classroom Block
C	Dining & Nutrition
D	Science Lab & Media Centre
E	Multi-purpose + 1 Class
F	4 Classroom Block
G	Grade R Classroom
H	Grade R Ablutions
I	Girls Ablutions
J	Boys Ablutions
K	Guard House
L	Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Cost of tests:

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).

**Carried Forward**

R

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

**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**

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**15 MPa/19 mm concrete**

1	Filling to cavity walls	m3	25
	A : 3      B : 4      C : 4      D : 4		
	E : 3      F : 7      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**VIBRATED REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**Carried Forward**

R

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

				<b>Brought Forward</b>			R	
				<b><u>30 MPa/19 mm concrete</u></b>				
2	Strip footings			m3	147			
	A : 22	B : 21	C : 27	D : 30				
	E : 23	F : 24	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
				<b><u>VIBRATED REINFORCED CONCRETE</u></b>				
				<b><u>30 MPa/19 mm concrete</u></b>				
3	Surface beds on waterproofing.			m3	176			
	A : 29	B : 19	C : 31	D : 29				
	E : 28	F : 40	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
4	Thickenings to surface beds.			m3	0.3			
	A : 0.0	B : 0.0	C : 0.0	D : 0.0				
	E : 0.0	F : 0.3	G : 0.0	H : 0.0				
	I : 0.0	J : 0.0	K : 0.0	L : 0.0				
5	Slabs			m3	2			
	A : 2	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
6	Walls			m3	14			
	A : 14	B : 0	C : 0	D : 0				
	E : 0	F : 0	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
7	Beams			m3	48			
	A : 7	B : 7	C : 8	D : 9				
	E : 7	F : 10	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
8	Aprons cast in panels			m3	70			
	A : 10	B : 10	C : 9	D : 14				
	E : 12	F : 15	G : 0	H : 0				
	I : 0	J : 0	K : 0	L : 0				
				<b>Carried Forward</b>			R	
Section No. 2								
Bill No. 2								
Concrete, Formwork and Reinforcement								

		<b>Brought Forward</b>		R
<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
9	Surface beds, slabs, etc	m2	1,130	
	A : 168    B : 145    C : 190    D : 224			
	E : 164    F : 240    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>				
10	Surface beds to falls.	m2	768	
	A : 127    B : 99    C : 100    D : 157			
	E : 120    F : 166    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>TESTING</u></b>				
11	Concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	No	75	
	A : 15    B : 9    C : 12    D : 12			
	E : 12    F : 15    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>MOVEMENT JOINTS ETC</u></b>				
<b><u>Saw cut joints</u></b>				
12	3 x 25mm Saw cut joints in top of concrete	m	54	
	A : 0    B : 0    C : 10    D : 13			
	E : 31    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u></b>				
13	10mm Joints not exceeding 300mm high (Provisional).	m	28	
	A : 0    B : 0    C : 10    D : 18			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
		<b>Carried Forward</b>		R
Section No. 2				
Bill No. 2				
Concrete, Formwork and Reinforcement				



		Brought Forward		R
<b><u>Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:</u></b>				
14	10 x 10mm In vertical expansion joints between concrete and brick surfaces, including raking out expansion joint filler as necessary (Provisional).	m	28	
	A : 0      B : 0      C : 10      D : 18			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>SMOOTH FORMWORK</u></b>				
<b><u>Formwork to Sides and Soffits:</u></b>				
15	Slabs propped up not exceeding 3,5m high.	m2	8	
	A : 8      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
16	Walls propped up not exceeding 3,5m high above bearing level.	m2	116	
	A : 116      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
17	Beams propped up not exceeding 3,5m high above bearing level.	m2	357	
	A : 54      B : 50      C : 61      D : 68			
	E : 53      F : 72      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
18	Formwork to edge of slab not exceeding 300mm high	m	14	
	A : 14      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>REINFORCEMENT</u></b>				
<b><u>Fabric reinforcement:</u></b>				
19	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1,884	
	A : 287      B : 242      C : 290      D : 381			
	E : 283      F : 402      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
		Carried Forward		R
Section No. 2				
Bill No. 2				
Concrete, Formwork and Reinforcement				

**Brought Forward**

R

**Mild steel reinforcement to structural concrete work:**

20	8mm Diameter bars.	kg	7,468	
	A : 1527    B : 1150    C : 1244    D : 1364			
	E : 1028    F : 1153    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			

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

21	10mm Diameter bars.	kg	5,979	
	A : 524    B : 800    C : 2575    D : 1089			
	E : 271    F : 719    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
22	12mm Diameter bars.	kg	11,379	
	A : 2864    B : 1266    C : 327    D : 2821			
	E : 2128    F : 1972    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			

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

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

R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 3 PRECAST CONCRETE</u></b>			
	Key:	Location Description:		
	A	Admin Block		
	B	2 Classroom Block		
	C	Dining & Nutrition		
	D	Science Lab & Media Centre		
	E	Multi-purpose + 1 Class		
	F	4 Classroom Block		
	G	Grade R Classroom		
	H	Grade R Ablutions		
	I	Girls Ablutions		
	J	Boys Ablutions		
	K	Guard House		
	L	Refuse Room		
	<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>PRECAST CONCRETE LINTELS</u></b>			
	<b><u>Prestressed fabricated lintels:</u></b>			
1	110 x 75mm Lintels in lengths not exceeding 3m.	m	71	
	A : 15      B : 0      C : 11      D : 5			
	E : 5      F : 35      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
2	150 x 75mm Lintels in lengths not exceeding 3m.	m	201	
	A : 22      B : 32      C : 28      D : 38			
	E : 28      F : 53      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 3			
	Precast Concrete			

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 4MASONRY</u></b>			
Key:	Location Description:		
A	Admin Block		
B	2 Classroom Block		
C	Dining & Nutrition		
D	Science Lab & Media Centre		
E	Multi-purpose + 1 Class		
F	4 Classroom Block		
G	Grade R Classroom		
H	Grade R Ablutions		
I	Girls Ablutions		
J	Boys Ablutions		
K	Guard House		
L	Refuse Room		
<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>Sizes in descriptions:</u>			
<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>			
<u>Face bricks:</u>			
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 4 Masonry</p>			

**Brought Forward**

R

Pointing:

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.

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	278
	A : 18      B : 22      C : 59      D : 65		
	E : 46      F : 68      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Carried Forward**

R

Section No. 2  
Bill No. 4  
Masonry

				<b>Brought Forward</b>			R
2	270mm cavity walls			m2	435		
	A : 62	B : 78	C : 71	D : 79			
	E : 62	F : 84	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
3	Mass brickwork in piers.			m3	5		
	A : 0	B : 1	C : 0	D : 1			
	E : 1	F : 1	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>							
<b><u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u></b>							
4	Half brick walls.			m2	72		
	A : 72	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
5	Half brick walls in beamfilling			m2	153		
	A : 17	B : 26	C : 20	D : 27			
	E : 20	F : 44	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
6	One brick walls.			m2	460		
	A : 42	B : 54	C : 114	D : 91			
	E : 73	F : 85	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
7	One brick walls in firewalls			m2	49		
	A : 0	B : 0	C : 15	D : 0			
	E : 8	F : 27	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
8	One brick walls in beamfilling			m2	12		
	A : 0	B : 12	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
9	270mm cavity walls			m2	1,104		
	A : 185	B : 179	C : 171	D : 207			
	E : 164	F : 198	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
				<b>Carried Forward</b>			R
Section No. 2							
Bill No. 4							
Masonry							

		<b>Brought Forward</b>		R
10	Mass brickwork in piers. A : 0      B : 2      C : 1      D : 0 E : 2      F : 3      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m3	8
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Splayed mortar fillets in cavities</u></b>				
11	Splayed mortar fillet one course high in 50mm cavity A : 62      B : 57      C : 71      D : 79 E : 62      F : 84      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m	414
<b><u>Closing cavities</u></b>				
12	Closing 50mm cavity of hollow wall vertically with brickwork half brick wide A : 36      B : 58      C : 60      D : 75 E : 55      F : 100      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m	383
13	Closing 50mm cavity of hollow wall horizontally with two courses of brickwork A : 26      B : 21      C : 47      D : 27 E : 21      F : 72      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m	214
<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>				
14	To walls (Provisional). A : 211      B : 165      C : 201      D : 241 E : 216      F : 234      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m2	1,268
<b><u>Brickwork reinforcement:</u></b>				
15	75mm Wide reinforcement built in horizontally. A : 355      B : 0      C : 0      D : 0 E : 0      F : 218      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		m	572
		<b>Carried Forward</b>		R
Section No. 2 Bill No. 4 Masonry				

				<b>Brought Forward</b>		R
16	Ditto, but in foundations			m	727	
	A : 270	B : 0	C : 0	D : 0		
	E : 457	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
17	150mm Wide reinforcement built in horizontally.			m	2,770	
	A : 170	B : 700	C : 397	D : 363		
	E : 800	F : 340	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
18	Ditto, but in foundations			m	3,007	
	A : 183	B : 785	C : 590	D : 650		
	E : 500	F : 299	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
19	230mm Wide reinforcement built in horizontally.			m	5,074	
	A : 844	B : 760	C : 772	D : 963		
	E : 800	F : 935	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
20	Ditto, but in foundations			m	4,284	
	A : 619	B : 712	C : 708	D : 790		
	E : 619	F : 836	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
<b><u>Cavity wall insulation</u></b>						
21	50mm "Isoboard" closed cell extruded polystyrene cavity wall insulation board built into cavity of hollow walls, including all necessary fixing ties and cutting around wall ties					
				m2	1,246	
	A : 211	B : 152	C : 193	D : 241		
	E : 216	F : 234	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
				<b>Carried Forward</b>		R
Section No. 2						
Bill No. 4						
Masonry						



		<b>Brought Forward</b>		R
<b><u>Turning pieces:</u></b>				
22	110mm Wide turning piece to lintels etc.	m	113	
	A : 18    B : 18    C : 23    D : 0			
	E : 21    F : 33    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
23	200mm Wide turning piece to lintels etc.	m	131	
	A : 6    B : 19    C : 13    D : 36			
	E : 24    F : 33    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Galvanised hoop iron cramps, ties, etc</u></b>				
24	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	298	
	A : 38    B : 40    C : 46    D : 62			
	E : 44    F : 68    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
25	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into brickwork or concrete.	No	186	
	A : 30    B : 24    C : 48    D : 36			
	E : 24    F : 24    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
26	10 x 75mm Mild steel dowel and mortices in wood and concrete.	No	58	
	A : 10    B : 8    C : 16    D : 12			
	E : 4    F : 8    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Air bricks etc:</u></b>				
27	230 x 160mm Cement vermin proof air brick.	No	24	
	A : 4    B : 4    C : 4    D : 4			
	E : 4    F : 4    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
		<b>Carried Forward</b>		R
Section No. 2 Bill No. 4 Masonry				

		Brought Forward		R
		<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>		
28	15 x 150mm Wide sills set flat and slightly projecting. A : 13      B : 21      C : 23      D : 27 E : 21      F : 36      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m	141	
		<b><u>FACE BRICKWORK</u></b>		
		<b><u>Golden Wheat Travertine (FBX) facebricks pointed with square ruled recessed horizontal and vertical joints:</u></b>		
29	Extra over brickwork for face brickwork externally. A : 86      B : 83      C : 46      D : 62 E : 60      F : 71      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m2	408	
30	Extra over brickwork for face brickwork in beamfilling. A : 55      B : 30      C : 20      D : 27 E : 20      F : 44      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m2	195	
31	Fair raking cutting. A : 26      B : 30      C : 30      D : 30 E : 25      F : 23      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m	164	
		<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>		
		<u>Note:</u>		
		First and last bricks of sills to be solid.		
32	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. A : 33      B : 21      C : 23      D : 27 E : 21      F : 36      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m	160	
		<b>Carried Forward</b>		R
Section No. 2 Bill No. 4 Masonry				

<b>Brought Forward</b>				R
<b><u>Firelight Travertine (FBX) facebricks pointed with square ruled recessed horizontal and vertical joints:</u></b>				
33	Extra over brickwork for face brickwork internally.	m2	559	
	A : 0      B : 85      C : 132      D : 129			
	E : 90      F : 122      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
34	Extra over brickwork for face brickwork externally.	m2	809	
	A : 109      B : 82      C : 235      D : 147			
	E : 108      F : 127      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
35	Extra over brickwork for face brickwork in piers.	m2	122	
	A : 6      B : 23      C : 9      D : 30			
	E : 23      F : 31      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
36	Ditto, but in foundations (Provisional).	m2	343	
	A : 37      B : 45      C : 65      D : 80			
	E : 54      F : 62      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>				
37	110mm soldier course jointed in cement mortar and pointed on sides and bottom.	m	244	
	A : 18      B : 24      C : 60      D : 29			
	E : 45      F : 70      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
38	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	159	
	A : 4      B : 26      C : 33      D : 40			
	E : 45      F : 11      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 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:		
	A	Admin Block		
	B	2 Classroom Block		
	C	Dining & Nutrition		
	D	Science Lab & Media Centre		
	E	Multi-purpose + 1 Class		
	F	4 Classroom Block		
	G	Grade R Classroom		
	H	Grade R Ablutions		
	I	Girls Ablutions		
	J	Boys Ablutions		
	K	Guard House		
	L	Refuse Room		
	<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	178	
	A : 30      B : 17      C : 40      D : 31			
	E : 34      F : 27      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
	<b>Carried Forward</b>			R
	<p>Section No. 2                      Bill No. 5                      Waterproofing</p>			

**Brought Forward**

**250Micron Embossed Dampproof Sheeting**

2	Under concrete slabs.	m2	1,599	
	A : 259    B : 188    C : 238    D : 323			
	E : 234    F : 357    G : 0        H : 0			
	I : 0        J : 0        K : 0        L : 0			

**JOINT SEALANTS ETC**

**Clear Neutral silicone sealant:**

3	In joint sealing and pointing all round external window and door frames.	m	649	
	A : 61    B : 84    C : 106    D : 129			
	E : 96    F : 172    G : 0        H : 0			
	I : 0        J : 0        K : 0        L : 0			

R

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

Section No. 2  
 Bill No. 5  
 Waterproofing

R

Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

**BILL NO. 6 ROOF COVERINGS ETC.**

Key:	Location Description:
A	Admin Block
B	2 Classroom Block
C	Dining & Nutrition
D	Science Lab & Media Centre
E	Multi-purpose + 1 Class
F	4 Classroom Block
G	Grade R Classroom
H	Grade R Ablutions
I	Girls Ablutions
J	Boys Ablutions
K	Guard House
L	Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Fixing:

Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.

Guarantee:

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.

**Carried Forward**

R

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

<b>Brought Forward</b>		R
<u>Pricing:</u>		
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).		
<b><u>RIBBED SHEETING AND ACCESSORIES</u></b>		
<b><u>0.8mm Nominal thickness IBR 686 roof sheets with Traffic Green Z200N colour to one side and standard grey backing coat to other side, etc., including fixing to timber purlins at approximately 1,200mm centres including all screws, bolts, washers, etc, strictly in accordance with manufacturer's specification.</u></b>		
1	Roof covering with pitch not exceeding 50 degrees. A : 307    B : 232    C : 301    D : 399 E : 306    F : 440    G : 0        H : 0 I : 0        J : 0        K : 0        L : 0	m2  1,986
<b><u>0,8mm Nominal thickness ditto, but flashings:</u></b>		
2	Ridge 462mm girth with minimum 230mm laps, fixed to roof sheeting (measured net). A : 20        B : 21        C : 47        D : 32 E : 24        F : 34        G : 0        H : 0 I : 0        J : 0        K : 0        L : 0	m  178
3	Moulded narrow and broad rib polyethelene filler blocks A : 40        B : 25        C : 47        D : 63 E : 47        F : 68        G : 0        H : 0 I : 0        J : 0        K : 0        L : 0	m  289
4	Moulded narrow and broad rib polyethelene filler blocks raking at valleys or hips A : 0        B : 18        C : 0        D : 0 E : 0        F : 0        G : 0        H : 0 I : 0        J : 0        K : 0        L : 0	m  18
<b><u>RAINWATER DISPOSAL (PROVISIONAL):</u></b>		
<b>Carried Forward</b>		R
Section No. 2 Bill No. 6 Roof Coverings Etc.		

<b>Brought Forward</b>				R
<b><u>Pre-painted aluminium rainwater goods:</u></b>				
5	150 x 130 x 150mm high eaves gutter in continuous lengths fixed to falls with approved gutter brackets at centres not exceeding 600mm including snow straps.	m	309	
	A : 40    B : 42    C : 47    D : 64			
	E : 47    F : 69    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
6	Extra over eaves gutter for stop end.	No	34	
	A : 6    B : 4    C : 12    D : 4			
	E : 4    F : 4    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
7	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	19	
	A : 4    B : 2    C : 6    D : 2			
	E : 2    F : 3    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
8	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	57	
	A : 12    B : 6    C : 18    D : 6			
	E : 6    F : 9    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
9	Extra over rainwater pipe for bend.	No	15	
	A : 4    B : 2    C : 2    D : 2			
	E : 2    F : 3    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
10	Extra over rainwater pipe for shoe.	No	6	
	A : 0    B : 2    C : 4    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>ROOF INSULATION</u></b>				
<b><u>Sisalation 420 housing grade reinforced aluminium foil and polyethylene insulation:</u></b>				
11	Insulation laid taut over purlins (at maximum 1200mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires.	m2	1,965	
	A : 307    B : 212    C : 301    D : 399			
	E : 306    F : 440    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b>Carried Forward</b>				R
Section No. 2				
Bill No. 6				
Roof Coverings Etc.				



**Brought Forward**

**SHEET METAL FLASHINGS, LININGS,  
COPINGS, ETC**

**0,8mm Chromadek fittings, flashings, etc.**

12	Cover flashing comprising of 450mm girth galvanised ridge flashing to match the colour of roof sheets including S10 clip pop riveted to flashing and roof sheeting, and 260mm girth counter flashing	m	17
	A : 0      B : 0      C : 17      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		
13	Counter flashing comprising of 300mm girth galvanised ridge flashing to match the colour of roof sheets including S10 clip pop riveted to flashing and roof sheeting, and 260mm girth counter flashing.	m	17
	A : 0      B : 0      C : 17      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0		

R

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

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

R

Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

**BILL NO. 7 CARPENTRY AND JOINERY**

Key:	Location Description:
A	Admin Block
B	2 Classroom Block
C	Dining & Nutrition
D	Science Lab & Media Centre
E	Multi-purpose + 1 Class
F	4 Classroom Block
G	Grade R Classroom
H	Grade R Ablutions
I	Girls Ablutions
J	Boys Ablutions
K	Guard House
L	Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Prefabricated roof trusses:

Prices must include for all cross and windbracing according to the manufacturer's instruction.

Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.

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.

**Carried Forward**

R

Section No. 2  
Bill No. 7  
Carpentry and Joinery

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:</p> <p>(a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.</p> <p>(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.</p> <p>(c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.</p> <p>(d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.</p> <p>The following minimum information shall be shown on the drawings:</p> <p>(a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.</p> <p>(b) Bracing as recommended by the Institute for Timber Construction.</p> <p>(c) Sizes and grading of the timber components.</p>	<p style="text-align: center;">R</p>
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2  Bill No. 7  Carpentry and Joinery</p>	<p style="text-align: center;">R</p>

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<p>(d) Truss sizes, e.g. height of ridge or angle of pitch.</p> <p>(e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).</p> <p>(f) Seperate connection details for hip, valley and jack rafters.</p> <p>(g) Maximum spacing for purlins and brandering to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.</p> <p>(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:</p> <p style="padding-left: 40px;">"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".</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><u>Fixing:</u></p> <p>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.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p>Where items are described as "bolted" the bolts have been measured elsewhere.</p> <p><b><u>ROOFS ETC</u></b></p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 7            Carpentry and Joinery</p>	<b>R</b>

				<b>Brought Forward</b>		R
<b><u>Sawn softwood:</u></b>						
1	38 x 114mm Wall plate.	m		336		
	A : 39    B : 41    C : 46    D : 63					
	E : 46    F : 101    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
2	38 x 228mm Gang boarding. (Provisional).	m		144		
	A : 19    B : 17    C : 23    D : 32					
	E : 23    F : 32    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
<b><u>Wrought softwood:</u></b>						
3	38 x 50mm Cleat 150mm long with two splay cut ends and twice brass screwed on to end of truss rafter.	No		298		
	A : 38    B : 40    C : 46    D : 62					
	E : 44    F : 68    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
4	50 x 76mm Purlins.	m		1,619		
	A : 280    B : 216    C : 223    D : 322					
	E : 236    F : 344    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
5	50 x 76mm Bearer fascia support (Provisional).	m		135		
	A : 29    B : 29    C : 0    D : 26					
	E : 26    F : 26    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
6	76 x 76mm eaves purlin.	m		302		
	A : 40    B : 35    C : 47    D : 64					
	E : 47    F : 69    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
<b><u>Laminated S.A. Pine:</u></b>						
7	50 x 228mm Beams in lengths exceeding 3,90m and not exceeding 6,60m long.	m		29		
	A : 29    B : 0    C : 0    D : 0					
	E : 0    F : 0    G : 0    H : 0					
	I : 0    J : 0    K : 0    L : 0					
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**Sundries:**

8	MiTek® eCo hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	3,340	
	A : 280    B : 444    C : 528    D : 744			
	E : 528    F : 816    G : 0        H : 0			
	I : 0        J : 0        K : 0        L : 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 maximum 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:** Bidders are referred to the Architects roof plan drawings 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.

9	Double pitch roof truss with 10000mm span between plates to 25 degree pitch, one side with 2800mm extended top chord including a 600mm overhang on one side	No	9	
	A : 9        B : 0        C : 0        D : 0			
	E : 0        F : 0        G : 0        H : 0			
	I : 0        J : 0        K : 0        L : 0			

10	Double pitch roof truss with 10000mm span, to 25 degree pitch, one side with 2800mm extended top chord and one side with 2400mm extended top chord including a 600mm overhang on both sides	No	10	
	A : 10        B : 0        C : 0        D : 0			
	E : 0        F : 0        G : 0        H : 0			
	I : 0        J : 0        K : 0        L : 0			

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11	Double pitch roof truss with 10170mm span between plates to 25 degree pitch, including a 600mm overhang on both sides. A : 0      B : 20      C : 0      D : 31 E : 22      F : 34      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No	107	
12	Double pitch roof truss with 12540mm span between plates to 25 degree pitch and 600mm overhang on both sides. A : 0      B : 0      C : 9      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No	9	
13	Double pitch roof truss with 8300mm span between plates to 25 degree pitch including a 600mm overhang on both sides. A : 0      B : 0      C : 5      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No	5	
14	Double pitch roof truss with 5597mm span between plates to 25 degree pitch including a 600mm overhang on both sides. A : 0      B : 0      C : 6      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No	6	
15	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.		Item	
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Fibre cement fascia</u></b>				
16	15 x 225 Fascia board three times drilled, and brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc. A : 40      B : 42      C : 47      D : 64 E : 47      F : 69      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	m	309	
<b>Carried Forward</b>				R
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**Brought Forward**

17 80 x 275mm Barge boards including galvanised steel H-profile jointing strips. m 179

A : 32      B : 22      C : 47      D : 26  
 E : 26      F : 26      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

18 Eaves soffit covering of 6mm thick fibre cement ceiling sheets including 38 x 38mm sawn softwood brandering along edges, along centre and at 400mm centres across sheets m2 181

A : 23      B : 24      C : 27      D : 38  
 E : 28      F : 41      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**DOORS ETC**

**Semi solid masonite flush panel doors with concealed hardwood edges all round hung to timber frames**

19 40mm single door 813 x 2032mm high (D1) No 15

A : 5      B : 1      C : 3      D : 4  
 E : 2      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**Wrought hardwood doors:**

20 "Swartland SD14" external quality door, size 815 x 2120mm high. (D3) No 14

A : 0      B : 3      C : 3      D : 2  
 E : 2      F : 4      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**FRAMED FRAMES ETC**

**Wrought meranti:**

21 58 x 108mm Rebated and angle rounded door frames plugged. m 75

A : 25      B : 5      C : 15      D : 20  
 E : 10      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**BEADS, ARCHITRAVES, ETC**

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**Wrought meranti:**

22	19mm Quadrant bead planted on.	m	150
	A : 60    B : 10    C : 30    D : 30		
	E : 20    F : 0    G : 0    H : 0		
	I : 0    J : 0    K : 0    L : 0		

23	19 x 70mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	594
	A : 129    B : 87    C : 42    D : 126		
	E : 89    F : 122    G : 0    H : 0		
	I : 0    J : 0    K : 0    L : 0		

**Sundries:**

24	38 x 76 mm Chamfered and grooved weatherboard fixed in and including groove or rebate in underside of door.	m	9
	A : 0    B : 2    C : 0    D : 2		
	E : 2    F : 3    G : 0    H : 0		
	I : 0    J : 0    K : 0    L : 0		

**HARDWOOD TIMBER BENCH ETC**

**Wrought meranti:**

25	Slatted seats of 38 x 50mm twice chamfered slats at 60mm centres screwed through steel brackets at 540mm centres including holes	m	5
	A : 5    B : 0    C : 0    D : 0		
	E : 0    F : 0    G : 0    H : 0		
	I : 0    J : 0    K : 0    L : 0		

26	75 x 50 x 3mm Channel section L-shaped bracket 432 x 331mm high overall with two 80 x 80 x 3mm triangular flat section stiffeners including splayed ends and twice holed for bolts	No	10
	A : 10    B : 0    C : 0    D : 0		
	E : 0    F : 0    G : 0    H : 0		
	I : 0    J : 0    K : 0    L : 0		

**JOINERY FITTINGS**

Descriptions for the following joinery fittings, etc., shall be deemed to include all ironmongery, metalwork, paint finishes, laminated finishes, etc., and for assembling and installing complete.

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**Fittings:**

The fittings generally have been measured in modules and the Type references after each module refer to the fittings of which they form a part.

The general shape, size, details and specification of the units are shown on the drawings and Bidders shall allow in their rates for the full intent of the work described and shown on the drawings.

**Worktops:**

The worktops shall be supported on cupboard or drawer units or on metal leg/brackets and free ends shall be supported on and including bearers fixed to walls or adjacent fittings. (Cupboard units, drawer units and metal leg/brackets are included with the relevant item).

Note: The stated height of the cupboard units, etc., under worktops includes the thickness of the worktop only (excluding the splashback over).

**Dimensions:**

The stated dimensions of units described as L-shaped on plan or U-shaped on plan are the extreme dimensions of the component, i.e. the overall length measured over the external face.

The dimensions of cupboards, lockers, storage units, etc., are stated in the following order :- width x depth x height.

**Steel posts, bearers, brackets, etc:**

Unless otherwise described all steel posts, bearers, brackets, etc., shall be galvanised mild steel finished with one coat calcium plumbate primer and two coats gloss enamel paint and prices shall include for bolting to floor or wall.

**Administration Block**

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**Staff Room Cupboards**

27 Floor cupboard size 3655mm long x 600mm deep x 935mm high overall, including drawers, worktop, etc. and all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-D included in these Bills of Quantities.

No 1

A : 1      B : 0      C : 0      D : 0  
 E : 0      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

28 Worktop 3045mm long x 600mm deep x 880mm high overall, including drawers, worktop, etc. and all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-D included in these Bills of Quantities.

No 1

A : 1      B : 0      C : 0      D : 0  
 E : 0      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**Kitchenette Fittings**

29 L-shaped floor cupboard size 4525mm long x 600mm deep x 920mm high overall, including drawers, worktop, opening for sink etc. and all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-E included in these Bills of Quantities.

No 1

A : 1      B : 0      C : 0      D : 0  
 E : 0      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**Entrance Foyer Bench**

30 Bench formed of mild steel frame and saligna seat size 2706mm long x 495mm deep x 450mm high overall, all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-E included in these Bills of Quantities.

No 1

A : 1      B : 0      C : 0      D : 0  
 E : 0      F : 0      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

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<b><u>Reception &amp; General Office Cupboards</u></b>				
31	Floor cupboard size 10810mm long x 600mm deep x 790mm high overall, including drawers, worktop, etc. and all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-B included in these Bills of Quantities.	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Strongroom &amp; Stock Room Shelving</u></b>				
32	Six tier shelf size 1970mm long x 350mm deep x 1613mm high overall, fixed on and including wall brackets and wall bands, all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-D included in these Bills of Quantities.	No	2	
	A : 2      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
33	Ditto, but size 2291mm long x 350mm deep x 1613mm high overall.	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
34	Ditto, but size 2935mm long x 350mm deep x 1613mm high overall.	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
35	Seven tier shelf size 2115mm long x 350mm deep x 1935mm high overall, fixed on and including wall brackets and wall bands, all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-C included in these Bills of Quantities.	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
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36	Ditto, but size 2077mm long x 350mm deep x 1935mm high overall.	No	1			
	A : 1      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
37	Ditto, but size 3330mm long x 350mm deep x 1935mm high overall.	No	1			
	A : 1      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>Sick Bay Cupboard</u></b>						
38	Floor cupboard size 456mm long x 370mm deep x 870mm high overall, including drawers, worktop, etc. and all as Drawing No. 210927-NKO-ADMN-F and 210927-NKO-ADMN-C included in these Bills of Quantities.	No	1			
	A : 1      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>Science Lab</u></b>						
<b><u>Equipment &amp; Chemical Store fittings as Drawing No. 5.08 included in these Bills of Quantities.</u></b>						
39	22 Thick laminated wrot SA pine shelving, 350mm wide with rounded edges on front side, screwed to brackets (elsewhere).	m	65			
	A : 0      B : 0      C : 0      D : 65					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
40	Heavy duty double slot wall band ,1830mm long fixed to wall as per the manufacturers specifications	No	20			
	A : 0      B : 0      C : 0      D : 20					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
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41	Shelf bracket for 305mm wide shelf.	No	240				
	A : 0      B : 0      C : 0      D : 240						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
42	Chemical store cupboard size 1850mm long x 450mm deep x 2180mm high overall, including doors, ironmongery, etc.	No	1				
	A : 0      B : 0      C : 0      D : 1						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
<b><u>Students Workspaces</u></b>							
43	32mm "Saligna" or similar approved worktops size 600mm wide with bull nose along one long edge	m	34				
	A : 0      B : 0      C : 0      D : 34						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
44	80mm diameter worktop steel leg, 850mm long with 100 x 100mm baseplate and top plate bolted to floor at bottom and screwed to the underside of the worktop	No	48				
	A : 0      B : 0      C : 0      D : 48						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
45	40 x 40 x 3mm Thick angle fixed to wall with 60mm long M8 expansion at 1m centres bolt and screwed to the underside of the worktop	m	25				
	A : 0      B : 0      C : 0      D : 25						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
<b><u>Student and Teachers Cupboards</u></b>							
46	Floor cupboard size 1130mm long x 600mm deep x 930mm high overall including cutting out opening for stainless steel sink ( elsewhere measured), as Drawing No. ... included in these Bills of Quantities.	No	8				
	A : 0      B : 0      C : 0      D : 8						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
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47	Floor cupboard size 3700mm long x 700mm deep x 880mm high overall, including opening for a stainless steel sink (elsewhere measured).	No	1			
	A : 0      B : 0      C : 0      D : 1					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
	<b><u>Raised platform</u></b>					
48	Allow the sum of R50 000.00 (Fifty Thousand Rands) for the raised platform installed complete.		Item			50,000.00
	<b><u>Media Centre</u></b>					
	<b><u>Store Shelving &amp; Work Room Cupboards as Drawing No. 5.08 included in these Bills of Quantities.</u></b>					
49	22 Thick laminated wrot SA pine shelving, 450mm wide with rounded edges on front side, screwed to brackets (elsewhere).	m	31			
	A : 0      B : 0      C : 0      D : 31					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
50	Heavy duty double slot wall band ,1830mm long fixed to wall as per the manufacturers specifications	No	10			
	A : 0      B : 0      C : 0      D : 10					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
51	Shelf bracket for 305mm wide shelf.	No	55			
	A : 0      B : 0      C : 0      D : 55					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
52	L-shaped floor cupboard size 7120mm long x 600mm deep x 750mm high overall	No	1			
	A : 0      B : 0      C : 0      D : 1					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
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<b><u>Classroom Fittings as Drawing No. 5.10 included in these Bills of Quantities.</u></b>				
53	32mm "Saligna" or similar approved worktops size 750mm wide with bull nose along one long edge	m	13	
	A : 0      B : 0      C : 0      D : 13			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
54	40 x 40 x 2,5mm Thick hollow section gallows bracket 520 x 490mm high overall with one 520mm long diagonal brace including closed ends, twice holed for screws and twice holed for bolts	No	22	
	A : 0      B : 0      C : 0      D : 0			
	E : 22      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
55	40 x 40 x 3mm mild steel square tube post with a welded 50 x 100 x 6mm pre-drilled flat section on top and 100 x 100 x 6mm pre-drilled base plate fixed to underside of tops with screws and suitable bolts for baseplate	No	13	
	A : 0      B : 0      C : 0      D : 13			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
56	L-shaped work Counter size 3060mm long x 750mm deep x 900mm high overall.	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
57	Five tier wall shelving size 4000mm long x 325 deep x 1500mm high overall.	No	1	
	A : 0      B : 0      C : 0      D : 1			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
58	Free standing five tier shelf size 2200mm long x 800 deep x 1500mm high overall, fixed on and including	No	1	
	A : 0      B : 0      C : 0      D : 1			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b>Carried Forward</b>				R
Section No. 2				
Bill No. 7				
Carpentry and Joinery				



				<b>Brought Forward</b>			R
59	Ditto, but 4534mm long	No			2		
	A : 0      B : 0      C : 0      D : 2						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
60	Wall shelving size 7745mm long x 420mm deep extreme x 898mm high overall	No			1		
	A : 0      B : 0      C : 0      D : 1						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
<b><u>Multi-Purpose Classroom</u></b>							
<b><u>Classroom Fittings, Equipment &amp; General Store Shelving as Drawing No. 5.07 included in these Bills of Quantities.</u></b>							
61	22 Thick laminated wrot SA pine shelving, 350mm wide with rounded edges on front side, screwed to brackets (elsewhere).	m			33		
	A : 0      B : 0      C : 0      D : 0						
	E : 33      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
62	Heavy duty double slot wall band ,1200mm long fixed to wall as per the manufacturers specifications	No			4		
	A : 0      B : 0      C : 0      D : 0						
	E : 4      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
63	Ditto, but 1830mm long.	No			6		
	A : 0      B : 0      C : 0      D : 0						
	E : 6      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
64	Shelf bracket for 305mm wide shelf.	No			52		
	A : 0      B : 0      C : 0      D : 0						
	E : 52      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
				<b>Carried Forward</b>			R
Section No. 2 Bill No. 7 Carpentry and Joinery							

<b>Brought Forward</b>						R
65	Cupboard size 3790mm long x 600mm deep x 930mm high overall, as Drawing No. 5.07 included in these Bills of Quantities.			No	2	
	A : 0      B : 0      C : 0      D : 0					
	E : 2      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
66	Cupboard size 7500mm long x 600mm deep x 930mm high overall including cutting out opening for stainless steel sink (elsewhere measured), as Drawing No. 5.07 included in these Bills of Quantities.			No	1	
	A : 0      B : 0      C : 0      D : 0					
	E : 1      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>Nutrition Centre</u></b>						
<b><u>Day &amp; Dry Bulk &amp; Veg Stores Shelving all as Drawing No. 210927-NKO-DNC-E included in these Bills of Quantities</u></b>						
67	Five tier shelf size 3170mm long x 450mm deep x 2135mm high overall, fixed on and including wall brackets and wall bands. (Day Store)			No	2	
	A : 0      B : 0      C : 2      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
68	Three tier shelf size 6315mm long x 450mm deep x 940mm high overall, fixed on and including wall brackets and wall bands. (Dry Bulk Store)			No	1	
	A : 0      B : 0      C : 1      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
69	Five tier shelf size 5243mm long x 450mm deep x 2135mm high overall, fixed on and including wall brackets and wall bands. (Veg Store)			No	1	
	A : 0      B : 0      C : 1      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b>Carried Forward</b>						R
Section No. 2						
Bill No. 7						
Carpentry and Joinery						

**Brought Forward**

R

**School Furniture**

NOTE: Furniture specified is as per DoBE specifications.  
Refer to attached specification document for  
manufacturing notes and confirmation of sizes.

**Principal's Furniture:**

70	Principals chair with high back	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		
71	Principal correspondence rack, 771 x 365 x 64mm high	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		
72	Principals desk, 1600 x 900 x 750mm high	No	2
	A : 2      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		
73	Approved standard epoxy powder coated finish filing cabinet with four lockable drawers, size 630 x 480 x 1330mm high	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		
74	Principal Credenza with sliding doors, size 1100 x 511 x 750mm high	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		
75	Corner piece, size 912 x 712mm	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Carried Forward**

R

Section No. 2  
Bill No. 7  
Carpentry and Joinery

<b>Brought Forward</b>				R
76	Wooden glazed door bookcase with 3 shelves, 1000 x 403 x 1442m high	No	1	
	A : 1    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
77	Upholstered teachers chair with armrests	No	2	
	A : 2    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
78	Side table, 1000 x 500 x 750mm high	No	1	
	A : 1    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
79	Pigeon hole 30 Division filing rack, size 857 x 370 x 1420mm high	No	1	
	A : 1    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Sick Room:</u></b>				
80	Steel frame single bed 1910 x 910mm including head and foot rails, weld mesh mattress section, four legged with baked grey epoxy/polyester powder coating finish (Sick Bay single bed). and plastic foam sponge	No	1	
	A : 1    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
81	Upholstered side chair with armrests	No	1	
	A : 1    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b><u>Reception/General Office</u></b>				
82	Administrator typist chair	No	7	
	A : 7    B : 0    C : 0    D : 0			
	E : 0    F : 0    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			
<b>Carried Forward</b>				R
Section No. 2				
Bill No. 7				
Carpentry and Joinery				

<b>Brought Forward</b>						R
83	Approved epoxy powder coated finish 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	4			
	A : 4      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
84	Approved standard epoxy powder coated finish filing cabinet with four lockable drawers, size 630 x 480 x 1330mm high	No	2			
	A : 2      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>Staff Room</u></b>						
85	Principals desk, 1600 x 900 x 750mm high	No	1			
	A : 1      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
86	Approved epoxy powder coated finish 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	4			
	A : 4      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
87	Approved standard epoxy powder coated finish filing cabinet with four lockable drawers, size 630 x 480 x 1330mm high	No	4			
	A : 4      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
88	Saligna teacher's desk size 1200 x 700 x 750mm high with 2 drawers	No	8			
	A : 8      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b>Carried Forward</b>						R
Section No. 2						
Bill No. 7						
Carpentry and Joinery						

				<b>Brought Forward</b>			R
89	Upholstered chair without armrests	No	16				
	A : 16      B : 0      C : 0      D : 0						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
<b><u>Classrooms &amp; HOD</u></b>							
90	Upholstered chair with armrests	No	31				
	A : 12      B : 3      C : 0      D : 7						
	E : 5      F : 4      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
91	Saligna teacher's desk size 1200 x 700 x 750mm high with 2 drawers	No	8				
	A : 0      B : 3      C : 0      D : 0						
	E : 1      F : 4      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
92	Double primary stack table 1000 x 450 x 500mm high.	No	60				
	A : 0      B : 40      C : 0      D : 0						
	E : 0      F : 20      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
93	Double secondary stack table 1200 x 450 x 750mm high.	No	16				
	A : 0      B : 0      C : 0      D : 16						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
94	Double combination primary desk 1000 x 700 x 650mm high.	No	60				
	A : 0      B : 40      C : 0      D : 0						
	E : 20      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
95	Double combination secondary desk 1200 x 820 x 750mm high.	No	40				
	A : 0      B : 0      C : 0      D : 0						
	E : 0      F : 40      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
96	Wooden table with steel legs, size 1600 x 700 x 730mm high	No	20				
	A : 0      B : 0      C : 20      D : 0						
	E : 0      F : 0      G : 0      H : 0						
	I : 0      J : 0      K : 0      L : 0						
				<b>Carried Forward</b>			R
Section No. 2							
Bill No. 7							
Carpentry and Joinery							

				<b>Brought Forward</b>			R
<b><u>Chairs</u></b>							
97	Large secondary stackable school chair			No	26		
	A : 0	B : 0	C : 0	D : 26			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
98	Lab chair, 690mm high			No	32		
	A : 0	B : 0	C : 0	D : 32			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b><u>Dining Room tables</u></b>							
99	Powder coated mild steel canteen table, 2200mm long x 520 x 670mm high			No	20		
	A : 0	B : 0	C : 20	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b>Carried Forward to Summary of Section No. 2</b>						R	
Section No. 2							
Bill No. 7							
Carpentry and Joinery							

**Item  
No**

**Quantity**

**Rate**

**Amount**

**SECTION NO. 2**

**BILL NO. 8 CEILINGS, PARTITIONS AND  
ACCESS FLOORING**

Key:	Location Description:
A	Admin Block
B	2 Classroom Block
C	Dining & Nutrition
D	Science Lab & Media Centre
E	Multi-purpose + 1 Class
F	4 Classroom Block
G	Grade R Classroom
H	Grade R Ablutions
I	Girls Ablutions
J	Boys Ablutions
K	Guard House
L	Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Descriptions:

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

Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.

**NAILED UP CEILINGS**

**Carried Forward**

R

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



<b>Brought Forward</b>				R
<b><u>6mm "Everite Nutec" fibre cement board with H-profile white pvc jointing strips:</u></b>				
1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	1,398	
	A : 205    B : 160    C : 215    D : 291 E : 214    F : 314    G : 0       H : 0 I : 0       J : 0       K : 0       L : 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	12	
	A : 1        B : 1        C : 2        D : 2 E : 2        F : 4        G : 0        H : 0 I : 0        J : 0        K : 0        L : 0			
<b><u>Rhino gypsum plasterboard cornices:</u></b>				
3	75mm Coved cornice plugged to walls including mitres, etc	m	703	
	A : 142    B : 90       C : 112    D : 138 E : 95     F : 125    G : 0       H : 0 I : 0       J : 0       K : 0       L : 0			
<b><u>Non-combustible polyester thermal insulation of a density of not less than 10kg/m3:</u></b>				
4	135mm Insulation in blanket form closely fitted and laid on top of brandering between roof timbers etc.	m2	1,107	
	A : 139    B : 147    C : 190    D : 224 E : 164    F : 244    G : 0       H : 0 I : 0       J : 0       K : 0       L : 0			
<b>Carried Forward to Summary of Section No. 2</b>				
Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring				R

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 9 FLOOR COVERINGS, WALL LININGS, ETC</u></b></p> <p>Key:                      Location Description:</p> <p>A                          Admin Block</p> <p>B                          2 Classroom Block</p> <p>C                          Dining &amp; Nutrition</p> <p>D                          Science Lab &amp; Media Centre</p> <p>E                          Multi-purpose + 1 Class</p> <p>F                          4 Classroom Block</p> <p>G                          Grade R Classroom</p> <p>H                          Grade R Ablutions</p> <p>I                          Girls Ablutions</p> <p>J                          Boys Ablutions</p> <p>K                          Guard House</p> <p>L                          Refuse Room</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>Cleaning:</u></p> <p>Rates for floor covering shall include for proper cleaning on completion.</p> <p><b><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></b></p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2</p> <p>Bill No. 9</p> <p>Floor Coverings, Wall Linings, Etc.</p>			

**Brought Forward**

**2mm welded "Floorwox Superflex" or equal approved semi flexible patterned vinyl floor sheeting with 300mm vinyl borderon laid in patterns as per manufactures specifications. All to architects approval.**

1	On smooth screeded floors laid in patterns.	m2	1,036	
	A : 139    B : 145    C : 120    D : 224			
	E : 164    F : 244    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 0			

**POLISH, SEALERS, ETC**

**Clean and apply 3 coats high quality "Floorworx" or equal approved Silk Matt Sealer finish.**

2	On vinyl sheeting.	m2	1,036	
	A : 139    B : 145    C : 120    D : 224			
	E : 164    F : 244    G : 0    H : 0			
	I : 0    J : 0    K : 0    L : 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

**SECTION NO. 2**

**BILL NO. 10IRONMONGERY**

Key:                      Location Description:

- A                      Admin Block
- B                      2 Classroom Block
- C                      Dining & Nutrition
- D                      Science Lab & Media Centre
- E                      Multi-purpose + 1 Class
- F                      4 Classroom Block
- G                      Grade R Classroom
- H                      Grade R Ablutions
- I                      Girls Ablutions
- J                      Boys Ablutions
- K                      Guard House
- L                      Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent:

Finishes to ironmongery:

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:

**Carried Forward**

R

Section No. 2  
 Bill No. 10  
 Ironmongery

<b>Brought Forward</b>		R
<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> <p><b><u>HINGES, BOLTS, ETC</u></b></p> <p><b><u>"Union" or similar approved</u></b></p>		
1	<p>100 x 75mm heavy duty nylon washered brass butt hinges.</p> <p style="margin-left: 40px;">A : 18      B : 12      C : 27      D : 18</p> <p style="margin-left: 40px;">E : 12      F : 12      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 99
2	<p>150 x 20mm flush bolts</p> <p style="margin-left: 40px;">A : 2      B : 0      C : 2      D : 0</p> <p style="margin-left: 40px;">E : 0      F : 0      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 4
<p><b><u>LOCKS</u></b></p> <p><b><u>"Union" or similar approved</u></b></p>		
3	<p>Four lever approved mortice lockset (Union 2277-78) complete with approved chromium plated handles.</p> <p style="margin-left: 40px;">A : 8      B : 4      C : 7      D : 6</p> <p style="margin-left: 40px;">E : 4      F : 4      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 33
<p><b><u>BATHROOM FITTINGS ETC.</u></b></p> <p><b><u>Longarms:</u></b></p>		
4	<p>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.</p> <p style="margin-left: 40px;">A : 0      B : 2      C : 0      D : 0</p> <p style="margin-left: 40px;">E : 0      F : 0      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 2
<b>Carried Forward</b>		R
<p>Section No. 2 Bill No. 10 Ironmongery</p>		

<b>Brought Forward</b>				R
<b><u>Sundries:</u></b>				
5	32mm Diameter black rubber door stop plugged to concrete floor.	No	39	
	A : 11      B : 4      C : 10      D : 6			
	E : 4      F : 4      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>LETTERS, NAMEPLATES, ETC.</u></b>				
<b><u>Acrylic door plates:</u></b>				
6	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	15	
	A : 0      B : 15      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
7	250 x 40 x 6mm Thick white acrylic door name plate with "Administration Block" letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	1	
	A : 0      B : 1      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
8	250 x 40 x 6mm Thick white acrylic door name plate with seven letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	34	
	A : 11      B : 2      C : 10      D : 3			
	E : 4      F : 4      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Sign plates:</u></b>				
9	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door.	No	6	
	A : 0      B : 0      C : 0      D : 0			
	E : 2      F : 4      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b>Carried Forward</b>				R
Section No. 2 Bill No. 10 Ironmongery				

<b>Brought Forward</b>					R
<b><u>"Union or similar approved sign plates:</u></b>					
10	First aid sign plate fixed to wall or door (Code: SS5066-06SSE13)			No	1
	A : 1	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
11	Tea/Kitchen sign fixed to wall or door (Code: SS5066-06SSE02)			No	1
	A : 1	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
12	Fire extinguisher sign fixed to wall or door (Code: SS5066-06SSE06)			No	15
	A : 15	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 10					
Ironmongery					

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>METALWORK</u></b></p> <p>Key:                    Location Description:</p> <p>A                    Admin Block</p> <p>B                    2 Classroom Block</p> <p>C                    Dining &amp; Nutrition</p> <p>D                    Science Lab &amp; Media Centre</p> <p>E                    Multi-purpose + 1 Class</p> <p>F                    4 Classroom Block</p> <p>G                    Grade R Classroom</p> <p>H                    Grade R Ablutions</p> <p>I                    Girls Ablutions</p> <p>J                    Boys Ablutions</p> <p>K                    Guard House</p> <p>L                    Refuse Room</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>			
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 11 Metalwork			



		Brought Forward			R
<b><u>Brass:</u></b>					
1	4 x 30mm Weatherbar set in concrete flush with floor finish one side.			m	18
	A : 4      B : 2      C : 5      D : 2				
	E : 2      F : 3      G : 0      H : 0				
	I : 0      J : 0      K : 0      L : 0				
<b><u>SUNDRY STEELWORK</u></b>					
<b><u>Bolts</u></b>					
2	Bolts			kg	10
	A : 10      B : 0      C : 0      D : 0				
	E : 0      F : 0      G : 0      H : 0				
	I : 0      J : 0      K : 0      L : 0				
3	80 mm M8 expansion bolt			No	42
	A : 0      B : 0      C : 0      D : 42				
	E : 0      F : 0      G : 0      H : 0				
	I : 0      J : 0      K : 0      L : 0				
<b><u>Welded brackets, etc</u></b>					
4	75 x 50 x 3 mm Channel section L-shaped bracket 432 x 331 mm high overall with two 80 x 80 x 3 mm triangular flat section stiffeners including splayed ends and twice holed for bolts			No	22
	A : 0      B : 0      C : 0      D : 22				
	E : 0      F : 0      G : 0      H : 0				
	I : 0      J : 0      K : 0      L : 0				
<b><u>PRESSED STEEL DOOR FRAMES</u></b>					
<b><u>1,2mm thick approved galvanised double rebated frames with 1 pair of standard steel butt hinges suitable for 270mm brick walls</u></b>					
5	Frame for door 813 x 2032mm high			No	14
	A : 0      B : 3      C : 3      D : 2				
	E : 2      F : 4      G : 0      H : 0				
	I : 0      J : 0      K : 0      L : 0				
<b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>					
All windows to be approved by the Architect prior to installation.					
		Carried Forward			R
Section No. 2 Bill No. 11 Metalwork					

Brought Forward				R
<p><b><u>Powder coated aluminium windows, factory glazed with 6.38mm laminated safety glass with clip-on glazing beads, with neoprene seals and fixed with minimum three lugs per side in accordance with manufacturers instructions:</u></b></p>				
6	Purpose made type window, size 600 x 600mm high including 6.38mm laminated safety glass as per the drawing attached to the back of the Bills of Quantities (W5)			
	No	6		
	A : 0	B : 0	C : 0	D : 2
	E : 4	F : 0	G : 0	H : 0
	I : 0	J : 0	K : 0	L : 0
7	Purpose made Type window, size 930 x 1185mm high including 6.38mm laminated safety glass and burglar bars as per the drawing attached to the back of the Bills of Quantities (W1)			
	No	15		
	A : 9	B : 0	C : 0	D : 6
	E : 0	F : 0	G : 0	H : 0
	I : 0	J : 0	K : 0	L : 0
8	Purpose made Type window, size 900 x 1200mm high including 6.38mm laminated safety glass and burglar bars as per the drawing attached to the back of the Bills of Quantities (W2)			
	No	122		
	A : 4	B : 23	C : 14	D : 22
	E : 19	F : 40	G : 0	H : 0
	I : 0	J : 0	K : 0	L : 0
9	Purpose made Type window, size 900 x 900mm high including 6.38mm laminated safety glass and burglar bars as per the drawing attached to the back of the Bills of Quantities (W4)			
	No	15		
	A : 0	B : 0	C : 11	D : 0
	E : 4	F : 0	G : 0	H : 0
	I : 0	J : 0	K : 0	L : 0
Carried Forward				R
Section No. 2 Bill No. 11 Metalwork				

<b>Brought Forward</b>						R
10	Sliding window size 1600 x 1185mm high including 6.38mm thick laminated safety glass.(W3)	No		3		
	A : 3      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
11	Fixed panel window size 1200 x 900mm high including 6.38mm thick laminated safety glass as per the drawing attached to the back of Bills of Quantities .	No				
	A : 0.0      B : 0.0      C : 0.0      D : 0.0					
	E : 0.0      F : 0.0      G : 0.0      H : 0.0					
	I : 0.0      J : 0.0      K : 0.0      L : 0.0					
<b><u>Powder coated aluminium doors, factory glazed with 6.38mm laminated safety glass with clip-on glazing beads, with neoprene seals and fixed with minimum three lugs per side in accordance with manufacturers instructions:</u></b>						
12	Double Door in equal leaves with fanlight and sidelights to fit block opening size 2240 x 2565mm high with and including 6.38mm laminated safety glazing as per drawing attached to back of Bills of Quantities.(AD1)	No		2		
	A : 2      B : 0      C : 0      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
13	Double Door in Equal leaves to fit block opening size 1760 x 2135mm high with and including 6.38mm laminated safety glazing (AD2)	No				
	A : 0.0      B : 0.0      C : 0.0      D : 0.0					
	E : 0.0      F : 0.0      G : 0.0      H : 0.0					
	I : 0.0      J : 0.0      K : 0.0      L : 0.0					
14	Double Door in Equal leaves to fit block opening size 1570 x 2135mm high with and including 6.38mm laminated safety glazing (AD2)	No		2		
	A : 0      B : 0      C : 2      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>GALVANIZED GATES</u></b>						
<b><u>Hot Dipped Galvanised Steel Gates:</u></b>						
<b>Carried Forward</b>						R
Section No. 2						
Bill No. 11						
Metalwork						

<b>Brought Forward</b>		R
<p><u>Note: The contractor is to check on site measurements before placing of order.</u></p>		
15	<p>Entrance double gate with side panels on both sides size 2805 x 2,105mm high formed of 50 x 50 x 2.8mm hollow square section framing to detail, gate formed of 50 x 50 x 2.8mm rectangular hollow section frame with 20 x 20 x 2.8mm intermediates spread equally not exceeding 100mm from each other (G1)</p> <p style="margin-left: 40px;">A : 2      B : 0      C : 0      D : 0</p> <p style="margin-left: 40px;">E : 0      F : 0      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 2
16	<p>Entrance single gate 915 x 2,105mm high formed of 50 x 50 x 2.8mm hollow square section framing to detail, with 20 x 20 x 2.8mm intermediates spread equally not exceeding 100mm from each other (G2)</p> <p style="margin-left: 40px;">A : 1      B : 0      C : 2      D : 0</p> <p style="margin-left: 40px;">E : 0      F : 0      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 3
17	<p>Entrance double gate with side panels on both sides size 1730 x 2135mm high formed of 50 x 50 x 2.8mm hollow square section framing to detail, gate formed of 50 x 50 x 2.8mm rectangular hollow section frame with 20 x 20 x 2.8mm intermediates spread equally not exceeding 100mm from each other (G3)</p> <p style="margin-left: 40px;">A : 0      B : 0      C : 2      D : 0</p> <p style="margin-left: 40px;">E : 0      F : 0      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 2
18	<p>Entrance single gate 880 x 2,105mm high formed of 50 x 50 x 2.8mm hollow square section framing to detail, with 20 x 20 x 2.8mm intermediates spread equally not exceeding 100mm from each other (G4)</p> <p style="margin-left: 40px;">A : 0      B : 3      C : 3      D : 2</p> <p style="margin-left: 40px;">E : 2      F : 4      G : 0      H : 0</p> <p style="margin-left: 40px;">I : 0      J : 0      K : 0      L : 0</p>	No 14
19	<p>Entrance double gate with side panels on both sides size 1730 x 2,105mm high formed of 50 x 50 x 2.8mm hollow square section framing to detail, with 20 x 20 x 2.8mm intermediates at 100mm centres and bolted to concrete wall, with 200mm locking bolt welded on (G5)</p> <p style="margin-left: 40px;">A : 0.0      B : 0.0      C : 0.0      D : 0.0</p> <p style="margin-left: 40px;">E : 0.0      F : 0.0      G : 0.0      H : 0.0</p> <p style="margin-left: 40px;">I : 0.0      J : 0.0      K : 0.0      L : 0.0</p>	No
<b>Carried Forward</b>		R
<p>Section No. 2 Bill No. 11 Metalwork</p>		

R

**Brought Forward**

**HORIZONTAL SECURITY MESH SCREENS AND CEILINGS**

**The following in horizontal mesh screens and ceilings and support framework around, neatly welded at all joints and intersections and finished with one coat Red Oxide primer**

20	Mentex 63, 30 x 80 x 3mm or similar approved welded security mesh fixed to the underside of rafters (Provisional).	m2	224
	A : 0      B : 0      C : 0      D : 224		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

21	Extra over metal ceiling for forming metal-clad trap door size 600 x 600 mm in clear including 50mm insurance grade padlock	No	2
	A : 0      B : 0      C : 0      D : 2		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Gratings, covers, etc**

22	4130 x 250mm polymer grating and frame	No	
	A : 0.0      B : 0.0      C : 0.0      D : 0.0		
	E : 0.0      F : 0.0      G : 0.0      H : 0.0		
	I : 0.0      J : 0.0      K : 0.0      L : 0.0		

**ALUMINIUM ROLLER SHUTTER DOORS**

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

**Powder coated roller shutter face door with overhead box with 0.8mm thick slats, 75mm wide and two barrel bolts including extruded aluminium formed of 40 x 40mm angle iron, with rubber seal**

23	Chain operated door complete with guides, fixing bolts etc., to suit clear opening size 1550 x 1155mm high fixed in position and including mortices in concrete walls for expansion bolts.	No	1
	A : 0      B : 0      C : 1      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Carried Forward**

R

Section No. 2  
Bill No. 11  
Metalwork

				<b>Brought Forward</b>			R
24	Ditto, but 1730 x 1155mm high			No			
	A : 0.0    B : 0.0    C : 0.0    D : 0.0						
	E : 0.0    F : 0.0    G : 0.0    H : 0.0						
	I : 0.0    J : 0.0    K : 0.0    L : 0.0						
<b><u>STEEL, STRONG ROOM DOORS</u></b>							
<b><u>VENTILATORS, ETC</u></b>							
<b><u>"Mutual Austen Safe &amp; Security " or similar</u></b>							
<b><u>approved record room door, 120mm thick with 6mm</u></b>							
<b><u>outerplate and 7-lever keylock</u></b>							
25	Strong room door to fit opening 750 x 1865mm high overall, complete with mechanism and fixing lugs including bedding in position into concrete, including approved strongroom doorstop fixed to floor.			No	1		
	A : 1        B : 0        C : 0        D : 0						
	E : 0        F : 0        G : 0        H : 0						
	I : 0        J : 0        K : 0        L : 0						
26	Double ended strong room ventilator built onto wall.			No	2		
	A : 2        B : 0        C : 0        D : 0						
	E : 0        F : 0        G : 0        H : 0						
	I : 0        J : 0        K : 0        L : 0						
<b><u>CUPBOARDS</u></b>							
<b><u>Approved standard epoxy powder coated finish</u></b>							
<b><u>lockers, etc. fixed in position strictly in accordance</u></b>							
<b><u>with the manufacturer's specification:</u></b>							
27	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	18		
	A : 2        B : 4        C : 0        D : 6						
	E : 2        F : 4        G : 0        H : 0						
	I : 0        J : 0        K : 0        L : 0						
<b><u>SUNDRY GALVANISED STEELWORK</u></b>							
				<b>Carried Forward</b>			R
Section No. 2							
Bill No. 11							
Metalwork							

<b>Brought Forward</b>		R
<b><u>Purpose made roof supports, columns etc.</u></b>		
28	75mm Outside diameter x 3mm thick x 6.51kg/m tubular column 2900mm long with 150 x 150 x 10mm base plate welded on to bottom end and top end having 250 x 3mm thick x 275mm girth channel-shaped bracket four times holed for bolts (elsewhere measured) welded on including setting up in position and embedding bottom end in concrete. A : 10      B : 0      C : 0      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No 10
29	12mm Diameter x 80mm long bolt with washer including core drilling in 50mm thick timber beam. A : 40      B : 0      C : 0      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No 40
30	12mm Diameter x 100mm long chemical anchor including core drilling in substructure for 12mm diameter x 90mm deep holes. A : 40      B : 0      C : 0      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No 40
<b><u>STAINLESS STEEL TABLES</u></b>		
<b><u>Grade 304 (18/10) stainless steel</u></b>		
31	Stainless steel table model, size 2250mm long x 650 deep x 910mm high with a 150mm splash back. A : 0      B : 0      C : 5      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0	No 5
<b><u>WRITING BOARDS, PINNING BOARDS, ETC.</u></b>		
<b>Carried Forward</b>		R
Section No. 2 Bill No. 11 Metalwork		

**Brought Forward**

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

32 Set of standard "Educanda code 811-070" or similar approved combination enamel magnetic and white board with aluminium chalkrail including setting up and fixing to walls complete and securing bottom of each board with two fixing brackets in accordance with the manufacturer's instructions, size 4,890 x 1,1230mm high overall.

No

9

A : 0      B : 2      C : 0      D : 1  
 E : 2      F : 4      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

**Aluminium frame pinning boards**

33 Standard wall mounted pinning board 2400 x 1200mm high with felt colour black, in natural anodised aluminium frame, fixed to wall as per the manufacturers instructions.

No

25

A : 7      B : 4      C : 0      D : 4  
 E : 2      F : 8      G : 0      H : 0  
 I : 0      J : 0      K : 0      L : 0

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

Section No. 2  
 Bill No. 11  
 Metalwork

R

R



Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLASTERING</u></b></p> <p>Key:                    Location Description:</p> <p>A                    Admin Block</p> <p>B                    2 Classroom Block</p> <p>C                    Dining &amp; Nutrition</p> <p>D                    Science Lab &amp; Media Centre</p> <p>E                    Multi-purpose + 1 Class</p> <p>F                    4 Classroom Block</p> <p>G                    Grade R Classroom</p> <p>H                    Grade R Ablutions</p> <p>I                    Girls Ablutions</p> <p>J                    Boys Ablutions</p> <p>K                    Guard House</p> <p>L                    Refuse Room</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><b><u>SCREEDS</u></b></p> <p><b><u>3:1 Cement plaster screeds steel trowelled on concrete:</u></b></p>			
1	25mm thick on floors.	m2	1,054	
	<p>A : 139      B : 145      C : 139      D : 224</p> <p>E : 164      F : 244      G : 0        H : 0</p> <p>I : 0        J : 0        K : 0        L : 0</p>			
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 12 Plastering			

		Brought Forward		R
2	Average 30mm thick to falls		m2	51
	A : 0      B : 0      C : 51      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
	<b><u>Prepare concrete slab substrate by vacuum grind and removing dust (vacuum and micro fibre mop), apply 2 coats "ABE" or equal approved abe screed SLCP primer (allow min 3 hours between coats), apply 5mm abe screed SLCP self-leveling cementitious dustless screed and allow 12 hours before vinyl sheeting application</u></b>			
3	On new screeded floors (Provisional).		m2	1,036
	A : 139    B : 145    C : 120    D : 224			
	E : 164    F : 244    G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
	<b><u>4mm Polyurethane epoxy floor coating to SANS 10400 Part J4.2, all laid in accordance with Manufacturer's instructions</u></b>			
	Certificate of complaine will be required from the contractor			
4	On new screed floors.		m2	70
	A : 0      B : 0      C : 70      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>Cement plaster on brick walls</u></b>			
5	On walls.		m2	1,252
	A : 417    B : 107    C : 184    D : 204			
	E : 148    F : 192    G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
6	In narrow widths.		m2	142
	A : 41      B : 11      C : 23      D : 35			
	E : 15      F : 16      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
		<b>Carried Forward</b>		R
Section No. 2				
Bill No. 12				
Plastering				

**Brought Forward**

**Cement plaster on concrete.**

7	On ceilings.				m2
	A : 8	B : 0	C : 0	D : 0	
	E : 0	F : 0	G : 0	H : 0	
	I : 0	J : 0	K : 0	L : 0	

8

R

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

Section No. 2  
 Bill No. 12  
 Plastering

R

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>TILING</u></b></p> <p>Key:                    Location Description:</p> <p>A                    Admin Block</p> <p>B                    2 Classroom Block</p> <p>C                    Dining &amp; Nutrition</p> <p>D                    Science Lab &amp; Media Centre</p> <p>E                    Multi-purpose + 1 Class</p> <p>F                    4 Classroom Block</p> <p>G                    Grade R Classroom</p> <p>H                    Grade R Ablutions</p> <p>I                    Girls Ablutions</p> <p>J                    Boys Ablutions</p> <p>K                    Guard House</p> <p>L                    Refuse Room</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>Fixing:</u></p> <p>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.</p> <p><b><u>WALL TILING</u></b></p>			
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 13 Tiling			

<b>Brought Forward</b>						R
<b><u>600 x 300 full bodied porcelain tiles (Prime cost of R300.00/m2) laid to patterns with adhesive and anti-bacterial dove grey waterproof jointing grout.</u></b>						
1	On smooth plastered walls.			m2	12	
	A : 0      B : 0      C : 11      D : 0					
	E : 1      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
2	On splashbacks.			m2	3	
	A : 1      B : 0      C : 2      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b><u>SUNDRIES</u></b>						
<b><u>Sundries:</u></b>						
3	PVC external corner strip piece, fixed in accordance with manufacturer's instructions (Provisional).			m	65	
	A : 5      B : 0      C : 60      D : 0					
	E : 0      F : 0      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
4	12mm "Kirk marketing" or similar approved aluminium straight edge trim ASE030 plugged to wall			m	594	
	A : 129      B : 87      C : 42      D : 126					
	E : 89      F : 122      G : 0      H : 0					
	I : 0      J : 0      K : 0      L : 0					
<b>Carried Forward to Summary of Section No. 2</b>						R
Section No. 2						
Bill No. 13						
Tiling						

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b></p> <p>Key:                    Location Description:</p> <p>A                    Admin Block</p> <p>B                    2 Classroom Block</p> <p>C                    Dining &amp; Nutrition</p> <p>D                    Science Lab &amp; Media Centre</p> <p>E                    Multi-purpose + 1 Class</p> <p>F                    4 Classroom Block</p> <p>G                    Grade R Classroom</p> <p>H                    Grade R Ablutions</p> <p>I                    Girls Ablutions</p> <p>J                    Boys Ablutions</p> <p>K                    Guard House</p> <p>L                    Refuse Room</p> <p> </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> </p> <p align="right"><b>Carried Forward</b></p>			
	<p>Section No. 2</p> <p>Bill No. 14</p> <p>Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Chasing:</u></p> <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> <p><u>Holes for pipes through new walls:</u></p> <p>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.</p> <p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><u>Description of pipes laid in trenches:</u></p> <p>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.</p> <p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p>	<p style="text-align: center;">R</p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>	<p style="text-align: center;">R</p>	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with 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.</p> <p><u>Flush pans:</u></p> <p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p><u>Fixing:</u></p> <p>Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.</p> <p>Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.</p> <p><u>Waste unions:</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>Sleeve pipes:</u></p> <p>Electrical sleeve pipes to be Class 34 and are to include for draw wires.</p>	<p style="text-align: center;">R</p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 14                  Plumbing and Drainage</p>	<p style="text-align: center;">R</p>	



**Brought Forward**

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**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

**Vitrified clay gulleys**

1	100 mm Dished gully not exceeding 1000 mm deep	No		5
	A : 2      B : 0      C : 2      D : 0			
	E : 0      F : 1      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			

**uPVC Soil pipes (SABS 791-1986):**

2	40mm Pipe and fixing to walls, falls, in concrete, etc.	m		80
	A : 5      B : 0      C : 0      D : 50			
	E : 15      F : 10      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			

3	50mm Pipe and fixing to walls, falls, in concrete, etc.	m		
	A : 0.0      B : 0.0      C : 0.0      D : 0.0			
	E : 0.0      F : 0.0      G : 0.0      H : 0.0			
	I : 0.0      J : 0.0      K : 0.0      L : 0.0			

4	110mm Pipes vertically or ramped to cleaning eyes etc in and including trenches not exceeding 1000mm deep.	m		4
	A : 4      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			

5	110mm Pipes laid in ground not exceeding 1000mm deep including all excavations in earth, bedding cradle and blanket fill of selected granular material, main fill compacting in layers not exceeding 150mm thick, adjust moisture content to optimum and compact to a density of 90% Modified AASHTO in drain trenches including carting off surplus displaced material.	m		92
	A : 50      B : 0      C : 0      D : 20			
	E : 22      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			

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6	250mm Pipe and fixing to walls, falls, in concrete, etc.			m			
	A : 0.0	B : 0.0	C : 0.0	D : 0.0			
	E : 0.0	F : 0.0	G : 0.0	H : 0.0			
	I : 0.0	J : 0.0	K : 0.0	L : 0.0			
	<b>Extra over uPVC pipes for fittings:</b>						
7	40 mm Adaptor			No	13		
	A : 3	B : 0	C : 0	D : 4			
	E : 3	F : 3	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
8	110 mm Pan connector			No			
	A : 0.0	B : 0.0	C : 0.0	D : 0.0			
	E : 0.0	F : 0.0	G : 0.0	H : 0.0			
	I : 0.0	J : 0.0	K : 0.0	L : 0.0			
9	40 mm Bend			No	14		
	A : 3	B : 0	C : 0	D : 8			
	E : 3	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
10	110mm Bend.			No	2		
	A : 2	B : 0	C : 0	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
11	40 mm Access bend			No	10		
	A : 2	B : 0	C : 0	D : 8			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
12	110mm Access bend.			No			
	A : 0.0	B : 0.0	C : 0.0	D : 0.0			
	E : 0.0	F : 0.0	G : 0.0	H : 0.0			
	I : 0.0	J : 0.0	K : 0.0	L : 0.0			
13	110mm Junction.			No			
	A : 0.0	B : 0.0	C : 0.0	D : 0.0			
	E : 0.0	F : 0.0	G : 0.0	H : 0.0			
	I : 0.0	J : 0.0	K : 0.0	L : 0.0			
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14 110mm Access junction. No  
 A : 0.0 B : 0.0 C : 0.0 D : 0.0  
 E : 0.0 F : 0.0 G : 0.0 H : 0.0  
 I : 0.0 J : 0.0 K : 0.0 L : 0.0

15 110 mm "GI two-way" vent valve No  
 A : 0.0 B : 0.0 C : 0.0 D : 0.0  
 E : 0.0 F : 0.0 G : 0.0 H : 0.0  
 I : 0.0 J : 0.0 K : 0.0 L : 0.0

**Manholes, gulley traps, etc:**

16 610mm ductile iron "SECUREX Y-560-C" or similar approved manhole cover with security lock cast in concrete slab No  
 A : 0.0 B : 0.0 C : 0.0 D : 0.0  
 E : 0.0 F : 0.0 G : 0.0 H : 0.0  
 I : 0.0 J : 0.0 K : 0.0 L : 0.0

**SANITARY FITTINGS**

**"Vaal" or similar approved ceramic sanitary fittings**

17 Vaal sanitaryware "Daisy" white vitreous china closed coupled W.C. suite colour white 90 degree outlet open rim pan (Code: 77400) and matching 9 litre front single flush cistern including lid, fitments and flush pipe elbow (Code: 710034) No  
 A : 0.0 B : 0.0 C : 0.0 D : 0.0  
 E : 0.0 F : 0.0 G : 0.0 H : 0.0  
 I : 0.0 J : 0.0 K : 0.0 L : 0.0

18 Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (product code 7023) with two tap holes including integrated overflow and chain stay hole, bolted to wall with two 10mm bolts (product code 8448Z0). No  
 A : 1 B : 0 C : 2 D : 0  
 E : 0 F : 0 G : 0 H : 0  
 I : 0 J : 0 K : 0 L : 0

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**Vitreous china:**

19	Vaal or similar approved 2345 laboratory sink, size 435 x 335 x 150mm with chromium plated waste with anti-theft plug and spindle as code 309-40, fitted under opening in joinery fitting and sealed with silicone sealant (joinery fitting elsewhere).	No	11
	A : 0      B : 0      C : 0      D : 9		
	E : 2      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Grade 430 stainless steel catering equipment:**

20	Stainless steel double bowl vegetable sink, size 1850mm long x 650 deep x 910mm high with a 150mm splash back.	No	2
	A : 0      B : 0      C : 2      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

21	Stainless steel pot sink, size 900mm long x 650 deep x 910mm high with a 150mm splash back. (Product code: 3044419)	No	1
	A : 0      B : 0      C : 1      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**"Franke" or similar approved grade 304 stainless steel**

22	Standard drop-on double sink and drainer PLN 621, size 1160 x 460mm (Code 1990031) set on cupboard fittings (elsewhere measured).	No	1
	A : 1      B : 0      C : 0      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

23	Luxtub wash trough size 600 x 500mm (Code: 2560001) including a 38mm waste fitting	No	4
	A : 0      B : 0      C : 4      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**WASTE UNIONS ETC**

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<b><u>Waste unions etc:</u></b>				
24	32mm Code 301 chrome plated basin waste union.	No	11	
	A : 0      B : 0      C : 2      D : 9			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
25	"Franke Spazi F/2" or similar approved single bowl plumbing kit	No	3	
	A : 0      B : 0      C : 1      D : 0			
	E : 2      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
26	"Franke Spazi F/2" or similar approved double bowl plumbing kit	No	3	
	A : 1      B : 0      C : 2      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
27	"Franke" or similar approved 90mm basket strainer waste plug	No	7	
	A : 0      B : 0      C : 5      D : 0			
	E : 2      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Testing:</u></b>				
28	Testing drainage pipe system.		Item	
<b><u>TRAPS ETC</u></b>				
<b><u>Traps etc:</u></b>				
29	32mm Cobra Watertech chrome plated deep seal bottle trap with outlet for 50mm PVC (Code 345/50).	No	12	
	A : 1      B : 0      C : 2      D : 9			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
30	40 x 40mm "Cobra" or similar approved chrome plated deep seal bottle trap (Code 360).	No	4	
	A : 0      B : 0      C : 4      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
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**Floor drains, etc:**

31	'Herbish HB 200 V (H) NW 100' or similar approved stainless steel grade 304 floor drain with vertical bottom outlet size 240 x 240 x 210mm deep fitted and connected complete.	No	3
	A : 0      B : 0      C : 3      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**Acid resistant trap**

32	50mm acid resistant trap	No	11
	A : 0      B : 0      C : 0      D : 9		
	E : 2      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

**TAPS, VALVES, ETC**

**'Cobra" or similar approved**

33	15mm ball valve (Code: FXF 1096-15)	No	19
	A : 2      B : 0      C : 6      D : 9		
	E : 2      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

34	15mm Chrome plated code 211-15 pillar tap.	No	4
	A : 0      B : 0      C : 4      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

35	15mm Carina sink mixer (Code: 296CA)	No	8
	A : 1      B : 0      C : 7      D : 0		
	E : 0      F : 0      G : 0      H : 0		
	I : 0      J : 0      K : 0      L : 0		

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				<b><u>"Bernco" or similar approved</u></b>		
36	15mm mixer with full bore anti-splash nozzle (Code:XL 1219-0)			No	11	
	A : 0	B : 0	C : 0	D : 9		
	E : 2	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
				<b><u>SANITARY PLUMBING</u></b>		
				<b><u>uPVC piping (SABS 967-1987):</u></b>		
37	40mm Waste pipes.			m	66	
	A : 6	B : 0	C : 40	D : 15		
	E : 5	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
38	50mm Ditto.			m	23	
	A : 3	B : 0	C : 20	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
39	110mm Ditto.			m	20	
	A : 0	B : 0	C : 15	D : 5		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
				<b><u>Extra over uPVC piping for:</u></b>		
40	40mm Bend.			No	28	
	A : 5	B : 0	C : 9	D : 9		
	E : 5	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
41	50mm Bend.			No	10	
	A : 4	B : 0	C : 6	D : 0		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
42	40mm Access bend.			No	12	
	A : 0	B : 0	C : 3	D : 9		
	E : 0	F : 0	G : 0	H : 0		
	I : 0	J : 0	K : 0	L : 0		
				<b>Carried Forward</b>		
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43	50mm Access Bend.			No	3		
	A : 0	B : 0	C : 3	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
44	40mm Access bend with anti-syphon horn.			No	2		
	A : 0	B : 0	C : 2	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
45	40mm Access junction.			No	5		
	A : 0	B : 0	C : 0	D : 5			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
46	50mm Access junction.			No	2		
	A : 0	B : 0	C : 2	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	<b>Testing:</b>						
47	Testing waste water pipe system.				Item		
	<b>WATER SUPPLIES</b>						
	<b>Class 2 medium copper pipes:</b>						
48	15mm Pipe building into walls.			m	200		
	A : 45	B : 0	C : 95	D : 50			
	E : 10	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
49	22mm Ditto.			m	191		
	A : 35	B : 0	C : 95	D : 50			
	E : 11	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
	<b>Extra over class 2 copper pipes for brass compression fittings:</b>						
50	15mm Fittings.			No	123		
	A : 35	B : 0	C : 55	D : 25			
	E : 8	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
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				<b>Brought Forward</b>			R
51	22mm Fittings.			No	96		
	A : 25	B : 0	C : 45	D : 20			
	E : 6	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b><u>Polypropylene pipes with thermoplastic couplings:</u></b>							
52	15mm Pipes fixed to walls.			m	10		
	A : 0	B : 0	C : 10	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
53	22mm Ditto.			m	8		
	A : 0	B : 0	C : 8	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b><u>Testing:</u></b>							
54	Testing water supply pipe system.				Item		
<b><u>Sundry work in connection with all plumbing:</u></b>							
55	Form hole in 220mm brickwall not exceeding 100mm diameter including making good.			No	4		
	A : 0	B : 0	C : 4	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
<b><u>ELECTRIC WATER HEATERS</u></b>							
<b><u>Electric water heaters:</u></b>							
56	50 litre 'Kwikot 600 Dual' or similar approved hot water heater with three kilowatt element, draincock and safety valve and fix on geyser tray (elsewhere measured) in roof space and joints to three 22mm copper pipes including connectors. (Electrical connection by Electrician).			No	2		
	A : 0	B : 0	C : 0	D : 1			
	E : 1	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
57	Ditto, but 100 litre geyser			No	1		
	A : 0	B : 0	C : 1	D : 0			
	E : 0	F : 0	G : 0	H : 0			
	I : 0	J : 0	K : 0	L : 0			
				<b>Carried Forward</b>			R
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				<b>Brought Forward</b>			R
58	'Kwikot' or similar approved polyethylene geyser tray to suit 50 litre horizontal geyser in roof space with socketed connection for overflow pipe. A : 0      B : 0      C : 0      D : 1 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0			No	1		
59	Ditto, but for 100 litre geyser A : 0      B : 0      C : 1      D : 0 E : 0      F : 0      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0			No	1		
<b><u>FIRE APPLIANCES ETC.</u></b>							
<b><u>Portable fire extinguishers:</u></b>							
60	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. A : 0      B : 0      C : 5      D : 4 E : 2      F : 4      G : 0      H : 0 I : 0      J : 0      K : 0      L : 0			No	15		
<b>Carried Forward to Summary of Section No. 2</b>							R
Section No. 2 Bill No. 14 Plumbing and Drainage							

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 17</u></b></p> <p><b><u>GLAZING</u></b></p> <p>Key:                      Location Description:</p> <p>A                      Admin Block</p> <p>B                      2 Classroom Block</p> <p>C                      Dining &amp; Nutrition</p> <p>D                      Science Lab &amp; Media Centre</p> <p>E                      Multi-purpose + 1 Class</p> <p>F                      4 Classroom Block</p> <p>G                      Grade R Classroom</p> <p>H                      Grade R Ablutions</p> <p>I                      Girls Ablutions</p> <p>J                      Boys Ablutions</p> <p>K                      Guard House</p> <p>L                      Refuse Room</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><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><b><u>6,38mm Normal strength clear laminated safety glass:</u></b></p>			
1	<p>Panes exceeding 0,1m2 and not exceeding 0,5m2.</p> <p>A : 0.0      B : 0.0      C : 0.0      D : 0.0</p> <p>E : 0.0      F : 0.0      G : 0.0      H : 0.0</p> <p>I : 0.0      J : 0.0      K : 0.0      L : 0.0</p>	m2		
	<p><b>Carried Forward to Summary of Section No. 2</b></p>		R	
	<p>Section No. 2</p> <p>Bill No. 15</p> <p>Glazing</p>			

Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

**BILL NO. 18**

**PAINTWORK**

Key:                      Location Description:

- A                      Admin Block
- B                      2 Classroom Block
- C                      Dining & Nutrition
- D                      Science Lab & Media Centre
- E                      Multi-purpose + 1 Class
- F                      4 Classroom Block
- G                      Grade R Classroom
- H                      Grade R Ablutions
- I                      Girls Ablutions
- J                      Boys Ablutions
- K                      Guard House
- L                      Refuse Room

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.

**SUPPLEMENTARY PREAMBLES**

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

All work to be executed in strict accordance with the specifications of the paint manufacturer.

Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.

**PAINTWORK ETC TO NEW WORK**

**ON SMOOTH CONCRETE**

**Clean floor surfaces from all loose debris, dust, oils, etc. and apply two coats epoxy paint**

**Carried Forward**

R

Section No. 2  
Bill No. 16  
Paintwork

		Brought Forward		R
<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	194	
	A : 34      B : 31      C : 0      D : 43			
	E : 40      F : 45      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<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	1,575	
	A : 228      B : 184      C : 239      D : 329			
	E : 241      F : 354      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
3	On concrete ceilings	m2	8	
	A : 8      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Prepare and apply one coat universal primer, one undercoat and two coats superior quality eggshell enamel:</u></b>				
4	On sills.	m2	31	
	A : 4      B : 5      C : 0      D : 9			
	E : 0      F : 13      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>ON PLASTERED SURFACES</u></b>				
<b><u>One coat merit plaster primer (UC1) thinned 20% with Mineral Turpentine and two coats Wall and All paint according to manufacturers specification.</u></b>				
5	Internal walls.	m2	1,394	
	A : 458      B : 118      C : 207      D : 239			
	E : 163      F : 209      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>ON WOOD</u></b>				
		Carried Forward		R
Section No. 2				
Bill No. 16				
Paintwork				

<b>Brought Forward</b>				R
<b><u>Prepare and apply one coat wood primer, one undercoat and two coats eggshell enamel paint on:</u></b>				
6	Doors (all surfaces measured).	m2	114	
	A : 22      B : 7      C : 33      D : 22			
	E : 15      F : 15      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
7	Frames, rails, etc not exceeding 300mm girth.	m	110	
	A : 30      B : 10      C : 0      D : 30			
	E : 20      F : 20      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u></b>				
8	Skirtings, rails, etc not exceeding 300mm girth.	m	525	
	A : 129      B : 59      C : 0      D : 126			
	E : 89      F : 122      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>Two coats wood primer on:</u></b>				
9	Backs of frames, linings, etc not exceeding 300mm wide.	m	152	
	A : 30      B : 10      C : 42      D : 30			
	E : 20      F : 20      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b><u>ON METAL</u></b>				
<b><u>Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised metal primer and finish with two coats velvagio paint to manufacturers specification:</u></b>				
10	On strongroom door	m2	4	
	A : 4      B : 0      C : 0      D : 0			
	E : 0      F : 0      G : 0      H : 0			
	I : 0      J : 0      K : 0      L : 0			
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 16				
Paintwork				

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

Bill No		Page No	Amount
1	Earthworks (Provisional)	44	
2	Concrete, Formwork and Reinforcement	50	
3	Precast Concrete	51	
4	Masonry	59	
5	Waterproofing	61	
6	Roof Coverings Etc.	65	
7	Carpentry and Joinery	87	
8	Ceilings, Partitions and Access Flooring	89	
9	Floor Coverings, Wall Linings, Etc.	91	
10	Ironmongery	95	
11	Metalwork	104	
12	Plastering	107	
13	Tiling	109	
14	Plumbing and Drainage	122	
15	Glazing	123	
16	Paintwork	126	
	<b>Carried to Final Summary</b>		R
	Section No. 2		

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>DEMOLITIONS &amp; BULK EARTHWORKS</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 required phasing of the contract to the satisfaction of the Principal Agent and remove when directed.	m	250	
	<b><u>DEMOLITIONS</u></b>			
	<b><u>Demolish and make good</u></b>			
2	Single storey building with mono pitched roof 7.40 x 6.00 on plan and 2.6m high at eaves comprising corrugated walls and corrugated iron roof covering with timber supports.	No	1	
3	Single storey building with mono pitched roof 10.00 x 6.00 on plan and 2.6m high at eaves comprising stone wall and corrugated iron roof covering with timber supports.	No	1	
4	Single storey building with mono pitched roof 19.80 x 7.00 on plan and 2.8m high at eaves comprising block walls and corrugated iron roof covering.	No	1	
5	Single storey building with double pitched roof 21.5 x 9.5m on plan and 2.8m high at eaves comprising block walls and corrugated iron roof covering	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Demolitions, Bulk Earthworks, etc..			



<b>Brought Forward</b>			R
6	Single storey building with double pitched roof 31.70 x 10.00 on plan and 2.8m high at eaves comprising block walls and corrugated iron roof covering.	No	1
7	Single storey building with double pitched roof 40.5 x 10.00 on plan and 2.8m high at eaves comprising block walls and corrugated iron roof covering.	No	1
8	Single storey toilet block with mono pitched roof 3.00 x 3.70 on plan and 2.5m high at eaves comprising block walls and corrugated iron roof covering.	No	1
9	Single storey toilet block with mono pitched roof 5.20 x 3.00 on plan and 2.5m high at eaves comprising block walls and corrugated iron roof covering.	No	1
10	Single storey toilet block with mono pitched roof 6.60 x 3.00 on plan and 2.5m high at eaves comprising block walls and corrugated iron roof covering.	No	1
11	Allow for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out.	No	14
12	Allow for breaking down and removing from site entire pit latrine structure including any structure that may be inside the pit. 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	14
<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	10,000
14	Stripping layers of top soil and carting away off site to a dumping site to be located by the contractor	m3	450
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Demolitions, Bulk Earthworks, etc..			

<b>Brought Forward</b>			R
<b><u>Excavations, Filling, Etc.</u></b>			
15	Open face excavation in earth over sloping site	m3	1,500
16	Extra over bulk excavation in earth for excavation in soft rock	m3	150
17	Ditto, but hard rock	m3	50
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u></b>			
18	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density over site to form platforms	m3	1,788
<b><u>Keeping excavations free of water</u></b>			
19	Keeping excavations free of all water other than subterranean water		Item
<b><u>TESTING</u></b>			
20	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	50
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 1			
Demolitions, Bulk Earthworks, etc..			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>WALKWAYS, RAMPS AND STAIRS</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, RAMPS AND STAIRS</u></b>			
	<b><u>Excavations, Filling, Etc.</u></b>			
1	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed	m3	27	
2	Reduce levels under paving areas.	m3	128	
3	Extra over excavations in earth to trenches for excavation in soft rock	m3	17	
4	Extra over excavations in earth to trenches for excavation in hard rock.	m3	9	
5	Extra over all excavations for carting away surplus excavated material.	m3	100	
6	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	79	
7	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	13	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 2 Walkways and Ramps			

<b>Brought Forward</b>			R
8	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	125
9	Rip, scarify, mix and consolidate top 150mm of sub grade to 90% mod AASHTO density.	m2	910
<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	20
<b><u>Keeping excavations free of water</u></b>			
11	Keeping excavations free of all water other than subterranean water		Item
<b><u>30MPa/20mm concrete:</u></b>			
12	Strip footings	m3	7
13	Ramps cast in panels.	m3	10
14	Paving cast in panels.	m3	4
15	Steps	m3	3
<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>			
16	Surface beds to falls.	m2	93
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u></b>			
17	10mm Joints not exceeding 300mm high (Provisional).	m	91
<b><u>Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:</u></b>			
18	10 x 10mm In vertical expansion joints between concrete and brick surfaces, including raking out expansion joint filler as necessary (Provisional).	m	91
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 2			
Walkways and Ramps			

<b>Brought Forward</b>			R
<b><u>Smooth Formwork to Sides:</u></b>			
19	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	55
<b><u>Fabric reinforcement:</u></b>			
20	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	93
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>			
21	Half brick walls in foundations.	m2	16
22	One brick walls in foundations.	m2	21
<b><u>Brickwork reinforcement:</u></b>			
23	75mm Wide reinforcement built in horizontally.	m	160
24	150mm Wide reinforcement built in horizontally.	m	210
<b><u>Firelight Travertine facebricks (FBX) pointed with square ruled recessed horizontal and vertical joints:</u></b>			
25	Extra over brickwork for face brickwork externally.	m2	3
26	Half brick wall of facebrick skin pointed on both sides	m2	24
27	One brick wall of facebrick skins pointed on both sides	m2	6
<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>			
28	220mm Wide roller course to top of walls bedded and jointed in cement mortar and pointed on top and one side as described.	m	21
29	Extra over brickwork for top row of solid face bricks on half brick walls	m	16
<b><u>Interlocking precast concrete (30 MPa) paving blocks laid with butt joints on 50mm thick river sand bed and sand/cement mix between joints</u></b>			
30	Paving of 60mm thick blocks including edge blocks to falls and cross falls	m2	758
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 2			
Walkways and Ramps			

**Brought Forward**

**Precast concrete road kerb including bedding on concrete, jointing and pointing**

31 Figure 10 with 200 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc.

m

702

R

**Carried Forward to Summary of Section No. 3**

Section No. 3  
Bill No. 2  
Walkways and Ramps

R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>STORMWATER &amp; SOIL 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>STORMWATER DRAINAGE</u></b>			
	<b><u>(30MPa) 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 sub-base material compacted to 93% Mod A.A.S.H.T.O. density, including all necessary excavations, 250 micron dpm, formwork, ref 193 mesh, compaction, grading, carting away, etc.	m	850	
2	Extra over channel for angles, intersections, ends, etc.	No	45	
3	Extra over for widening concrete to form spreader 2500mm wide extreme for a length of 1200mm and bedding 120mm stone pitching in concrete spaced at 200mm centre spacings to falls including brushing concrete between stones.	No	8	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 3 Stormwater & Soil Drainage			

<b>Brought Forward</b>			R
<b><u>Gabion mattress</u></b>			
4	Reno mattress size 2500 x 1500 x 500mm high filled with rocks varying from 75 to 150mm diameter, including ground preparation, bidum, excavation, etc.	No	5
<b><u>SOIL DRAINAGE</u></b>			
<b><u>Excavations, Filling, Etc.</u></b>			
5	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	126
6	Extra over all excavations for carting away surplus excavated material.	m3	54
7	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	420
8	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density as backfilling to trenches, holes, etc</u>	m3	54
<b><u>Provision of cradle from commercial sources</u></b>			
9	Supply, lay and compact selected cradle	m3	72
<b><u>Supply, lay, joint, bed (flexible bedding), and test uPVC Class 34 Pipe with moulded rings to SABS 791</u></b>			
10	110mm Diameter pipes	m	283
<b><u>Supply, lay, joint, bed (flexible bedding), and test uPVC Class 34 Pipe with moulded rings to SABS 791</u></b>			
11	110mm Diameter pipes	m	101
<b><u>Extra over uPVC pipes for fittings</u></b>			
12	110mm Bend	No	13
13	110mm Access junction	No	8
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Stormwater & Soil Drainage			



<b>Brought Forward</b>			R
<b><u>uPVC gulleys</u></b>			
14	110mm Gulley not exceeding 1000mm deep	No	2
<b><u>Sundries</u></b>			
15	Unreinforced concrete encasing to 110mm horizontal pipe	m	15
<b><u>Precast concrete circular inspection chambers (covers elsewhere) with ring heights to suit depth including all excavation, risk of collapse, backfilling, channels, benching and concrete bases.</u></b>			
16	Inspection chamber 1050mm diameter and exceeding 1000mm and not exceeding 1250mm deep internally	No	8
17	Inspection chamber 1050mm diameter and exceeding 1250mm and not exceeding 1500mm deep internally	No	4
<b><u>Covers etc</u></b>			
18	1130mm Diameter 150mm thick precast concrete cover over manhole with 620mm diameter removable precast concrete cover	No	12
19	Lifting key for manhole cover	No	2
<b><u>Acid Neutralizing Tank &amp; Grease Trap</u></b>			
20	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed	m3	8
21	Extra over excavations in earth for excavations in soft rock	m3	4
22	Extra over excavations in earth for excavation in hard rock	m3	2
23	Allow for the risk of collapse to sides of excavations exceeding 1.5 m deep	m2	10
24	Allow for keeping excavations free of water		Item
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 3			
Stormwater & Soil Drainage			

<b>Brought Forward</b>			R
25	Backfilling with material obtained from the excavations and / or prescribed stock piles on site compacted in layers not exceeding 150 mm thick to 90% Modified AASHTO density at optimum moisture content, including shaping to falls as required, all necessary hand compacting, etc	m3	2
26	Imported 13mm marble chips in acid neutralizing tank	m3	1
27	Reinforced concrete (30MPa) in bottom, slab, etc	m3	4
28	Strike off and cure to top surface of concrete	m2	4
29	General formwork to sides and soffit of slab including removal through opening size 900 x 680mm	m2	2
30	Formwork to edge of slab not exceeding 150 mm high	m	7
31	Box for and form rebated opening size 900 x 680 mm through 150mm slab for manhole and frame (elsewhere)	No	1
32	Mesh ref 193 reinforcement	m2	12
33	Half brick wall in 3:1 cement mortar as linings to concrete	m2	9
34	One brick wall in 3:1 cement mortar	m2	7
35	Form opening size 110mm diameter through one brick wall and render all round in cement plaster	No	4
36	Precast concrete cover slab size 980 x 680 x 150mm thick including 4(no) lifting handles		
		No	1
37	Standard cast iron type two piece double seal manhole cover and frame to opening size 600 x 600mm, the frame bedded in 3:1 cement mortar and cover in tallow	No	1
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 3			
Stormwater & Soil Drainage			

<b>Brought Forward</b>			R
38	Render in 3:1 cement plaster with Blue Circle water proofing compound added on horizontal surfaces	m2	17
39	110 mm Diameter PVC pipe including 1000mm deep excavations, backfilling and carting away excess material	m	10
40	Extra for 110mm bend	No	4
41	Ditto, but for 110mm T- junction	No	4
42	Ditto, but 100mm cleaning eye	No	2
43	"GTS 700" or similar approved stainless steel grease trap size 700 x 450 x 450mm high 2 basket installed as per the manufacturer's specifications	No	1
<b><u>The following in Septic Tank including necessary planking and strutting and keeping excavations dry</u></b>			
44	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed	m3	83
45	Extra over excavations in earth for excavations in soft rock	m3	8
46	Extra over excavations in earth for excavation in hard rock	m3	4
47	Allow for the risk of collapse to sides of excavations exceeding 1.5 m deep	m2	74
48	Allow for keeping excavations free of water	Item	
49	Backfilling with material obtained from the excavations and / or prescribed stock piles on site compacted in layers not exceeding 150 mm thick to 90% Modified AASHTO density at optimum moisture content, including shaping to falls as required, all necessary hand compacting, etc	m3	11
50	Cement concrete (25MPa) in surface beds to bottom of tank	m3	7.2
51	Reinforced concrete (30MPa) in walls, slab, etc	m3	21
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Stormwater & Soil Drainage			

<b>Brought Forward</b>			R
52	Strike off and cure to top surface of concrete	m2	91
53	Rough formwork to walls	m2	126
54	Rough formwork to soffits of slabs including removal through opening size 450 x 650 mm	m2	32
55	Formwork to edge of slab not exceeding 150 mm high	m	47
56	Form opening size 100mm diameter through concrete walls	No	3
57	Box for and form rebated opening size 450 x 650 mm through 150 mm slab for manhole and frame (elsewhere)	No	2
58	Mesh ref 245 reinforcement	m2	42
59	12mm Diameter high tensile reinforcing bars.	kg	2,380
60	Cement plaster on concrete walls	m2	62
61	Bessans du Plessis Standard cast iron type two piece double seal manhole cover and frame to opening size 450 x 600mm, the frame bedded in 3:1 cement mortar and cover in tallow	No	2
62	110 mm Diameter PVC pipe	m	3
63	Extra for 110mm junction	No	2
<b><u>The following in french drain soakaway 15m long</u></b>			
64	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed for french drain soakaway	m3	18
65	Allow for keeping excavations free of water		Item
66	Allow for risk of collapse of side of trench excavations exceeding 1.5 m deep	m2	36
67	Topsoil carted on top of Bidum (elsewhere) spread and levelled	m3	5
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Stormwater & Soil Drainage			

<b>Brought Forward</b>			R
68	Imported 38mm Crushed stone in french drain soakaway	m3	9
69	Kaymat U24 laid in french drain soakaway	m2	68
70	100 mm Diameter perforated santar piping laid in french drain soakaway	m	15
71	Extra over for 100 mm Junction	No	3
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 3			
Stormwater & Soil Drainage			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</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>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	1,000	
2	Stripping layers of top soil and carting away off site to a dumping site to be located by the contractor	m3	150	
	<b><u>WATER SUPPLY, RETICULATION, ETC</u></b>			
	<b><u>Excavations, Filling, Etc.</u></b>			
3	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	675	
4	Extra over excavations in earth to bases and trenches for excavation in soft rock	m3	67	
5	Extra over excavations in earth to bases and trenches for excavation in hard rock.	m3	33	
6	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density as backfilling to trenches, holes, etc.</u></b>	m3	450	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 4 Water Reticulation			

<b>Brought Forward</b>			R
<b><u>Supply only of bedding from trench excavation</u></b>			
7	Selected granular material	m3	170
8	Selected fill material	m3	133
<b><u>Supply only of bedding from designated borrow pits</u></b>			
9	Selected granular material	m3	126
<b><u>Supply only of Class B bedding by importation from commercial sources</u></b>			
10	Selected granular material (bedding cradle)	m3	200
11	Selected fill material (bedding blanket)	m3	160
<b><u>Supply, handle, lay, joint and bed type 4 class 12 pipes</u></b>			
12	25mm diameter pipes	m	495
13	50mm diameter pipes	m	890
<b><u>Extra-over for uPVC fittings, laying on Class B bedding of specials complete with coupling</u></b>			
14	25mm fittings	No	20
15	50mm fittings	No	17
<b><u>Gate valves</u></b>			
16	25mm isolating valves	No	5
17	50mm isolating valves	No	5
18	50mm non-return valves	No	2
19	Valve box and cover	No	1
20	40mm "Elster Kent Helix H400" water meter	No	1
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 4			
Water Reticulation			

<b>Brought Forward</b>				R
<b><u>Extra over items for supplying, fixing of 16 Bars gate valve installed beneath air valve:</u></b>				
21	25mm	No	7	
<b><u>Manholes</u></b>				
22	Supply all materials and construct manholes using 1200mm diameter x 500mm high precast concrete rings depth not exceeding 1,5m for	No	2	
<b><u>Extra over items for supplying, fixing of 16 Bars gate valve installed beneath air valve:</u></b>				
23	Isolating valves as per Drawing 1054/011	No	1	
<b><u>Anchor/thrust blocks</u></b>				
24	Class 15MPa/19mm stone	m3	5	
<b><u>Anchor/thrust blocks</u></b>				
25	Class 20MPa/19mm stone	m3	4	
<b><u>Marker posts</u></b>				
26	Supply, deliver, paint and install precast concrete marker post - including concreting	No	20	
<b><u>Stand pipe and drinking fountain</u></b>				
27	Allow for 150mm thick, 500 x 500mm wide, 15Mpa/19mm stone concrete around garden tap assembly	No	3	
28	20mm HDPE female elbow	No	3	
29	20mm HDPE pipe 20mm long	No	3	
30	20mm Galvanised mild steel pipe threaded on both ends, 1400mm long	No	3	
31	20mm GMS female threaded elbow	No	6	
32	20mm GMS pipe section 20mm long	No	3	
33	20mm female socket	No	3	
<b>Carried Forward</b>				R
Section No. 3				
Bill No. 4				
Water Reticulation				



<b>Brought Forward</b>			R
34	20mm brass garden tap with suitable adaptor and setting in position.	No	3
35	Civic drinking fountain 1200mm high from Oldworld Concrete with stainless steel drinking press down hold open sprout tap. Linked to elevated water tank.	No	3
<b><u>Cast iron end caps</u></b>			
36	50 mm diameter	No	2
<b><u>Testing:</u></b>			
37	Supply install and commission internal pumphouse pipework and equipment		Item
38	Testing water supply pipe system.		Item
<b><u>Galvanised Fittings</u></b>			
39	50mm barrel nipple	No	8
40	50mm galvanised pipe	m	17
41	50mm elbow FXF 90	No	16
<b><u>ELEVATED TANK STAND</u></b>			
<b><u>Galvanised Sectional Elevated Tank</u></b>			
42	Supply and install "Abeco" or similar approved steel galvanised sectional water storage tank size 3660 x 3660 x 3660mm high on a 12m high galvanised tower stand with a walkway, landing and ladder.	No	1
<b><u>15MPa/20mm concrete</u></b>			
43	Blinding cast against excavated surfaces	m3	2
<b><u>30MPa/20mm concrete</u></b>			
44	Bases for elevated tanks cast against excavated surfaces	m3	9
<b><u>PUMP HOUSE</u></b>			
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 4			
Water Reticulation			

<b>Brought Forward</b>			R
<b><u>Excavations, Filling, Etc.</u></b>			
45	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	9
46	Extra over excavations in earth to trenches for excavation in soft rock	m3	2
47	Extra over excavations in earth to trenches for excavation in hard rock.	m3	2
48	Extra over all excavations for carting away surplus excavated material.	m3	10
49	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	36
50	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	4
51	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	30
52	Keeping excavations free of all water other than subterranean water		Item
53	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	4
<b><u>25MPa/20mm concrete:</u></b>			
54	Strip footings cast against excavated surfaces	m3	4
55	Surface beds, etc.	m3	4
56	Slabs.	m3	6
<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>			
57	Surface beds to falls.	m2	30
<b>Carried Forward</b>			R
Section No. 3 Bill No. 4 Water Reticulation			

<b>Brought Forward</b>			R
<b><u>Smooth formwork sides and soffits</u></b>			
58	Slabs propped up not exceeding 3,5m high.	m2	34
59	Formwork to edge of slab not exceeding 150 mm high	m	48
<b><u>Extra on formwork for boxing or blocking in or boxing out to form:</u></b>			
60	900 x 900mm opening through 150mm thick slab.	No	2
61	Form 20mm wide drip groove to underside of concrete slabs.	m	32
<b><u>Fabric reinforcement:</u></b>			
62	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40
63	REF. 311 fabric reinforcement in concrete surface beds, slabs, etc.	m2	34
<b><u>High tensile steel reinforcement to structural concrete work:</u></b>			
64	12mm Diameter bars.	kg	600
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>			
65	One brick walls in foundations.	m2	30
<b><u>Blockwork in superstructure is to be concrete metric modular masonry units of 7MPa nominal compressive strength in mortar composed of 6 parts (by volume) of sand and 1 part (by volume) of cement:</u></b>			
66	140mm block walls	m2	96
<b><u>Brickwork reinforcement:</u></b>			
67	150mm Wide reinforcement built in horizontally.	m	384
<b><u>Turning pieces:</u></b>			
68	200mm Wide turning piece to lintels etc.	m	4
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 4			
Water Reticulation			

Brought Forward			R
	<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>		
69	To walls (Provisional).	m2	96
	<b><u>Firelight Travertine (FBX) facebricks pointed with square ruled recessed horizontal and vertical joints:</u></b>		
70	Extra over brickwork for face brickwork.	m2	96
	<b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b>		
71	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	6
	<b><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>		
72	Under surface beds.	m2	34
	<b><u>One layer Derbigum SP 4mm fully sealed by torch on fusion or coldbond 90 adhesive spread at the rate of 1-3 square metres per litre waterproofing membrane applied in strict accordance with the manufacturer's instructions, including laps, turn-ups, turn-downs, etc. and preparing and priming concrete or screeded surfaces</u></b>		
73	On walls, turn-ups, etc.	m2	40
	<b><u>Prepare and apply two coats bituminous aluminium paint on</u></b>		
74	Waterproofing membrane to roofs.	m2	40
	<b><u>Steel transformer unit door Type DV</u></b>		
75	Double door 1829 x 2438mm high with each leaf with galvanised mild steel louvres and 1.2mm rebated frame suitable for 270mm wall	No	2
	<b>Carried Forward</b>		R
Section No. 3 Bill No. 4 Water Reticulation			

<b>Brought Forward</b>			R
<b><u>uPVC Soil pipes (SABS 791-1986):</u></b>			
76	110mm class 4 Pipe and fixing to walls, falls, in concrete, etc.	m	6
<b><u>Galvanised iron water supply pipes and fittings</u></b>			
77	100 diameter pipes	m	8
<b><u>Extra-over for the supplying, laying on Class B bedding of specials complete with coupling</u></b>			
78	100 diameter flange	No	2
79	100mm diameter 90 degree elbow	No	2
80	100mm diameter "Cobra" or similar approved brass gate valve	No	2
81	100mm diameter non-return valve	No	2
82	100mm diameter unions	No	2
83	100mm diameter tee piece	No	2
84	100mm diameter one way valve	No	2
<b><u>Manhole covers</u></b>			
85	Cast iron double seal cover and frame size 900 x 900mm in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, etc	No	2
<b><u>Cement plaster on walls:</u></b>			
86	On internal walls.	m2	86
<b><u>One coat merit plaster primer (UC1) thinned 20% with Mineral Turpentine and two coats Wall and All paint according to manufacturers specification.</u></b>			
87	Ceilings and cornices.	m2	30
88	On internal walls.	m2	86
<b><u>SUBMERSIBLE WATER PUMP</u></b>			
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 4			
Water Reticulation			

Brought Forward			R
	<b><u>Supply all materials, install and commission submersible pumps with electric motor and switch gear in the pump chamber complete with connection fittings, water meter, automatic controls and internal pipework</u></b>		
89	BHO1 Flow rate = 2l/s Pump installation depth below ground level = 120m Static water below ground level = 59m Borehole depth = 130m Static head above ground level = 80m Pipe length = 3200m(elsewhere measured) Pipe diameter = 75mm Pipe material type = HDPE	No	1
90	BHO2 Flow rate = 1l/s Pump installation depth below ground level = 100m Static water below ground level = 40m Borehole depth = 115m Static head above ground level = 80m Pipe length = 2900m(elsewhere measured) Pipe diameter = 63mm Pipe material type = HDPE	No	1
91	Allow a sum of R160 000.00 for Eskom electricity supply application and connection fees including all liaison and certification by Eskom and client.		Item
			160,000.00
	<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. 6</u></b>			
	<b><u>TEMPORAL CLASSROOMS</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>EXCAVATIONS, FILLING, ETC</u></b>			
	<b><u>Site clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	250	
	<b><u>Excavations, Filling, Etc.</u></b>			
2	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	168	
	<b><u>PREFABRICATED STRUCTURES</u></b>			
	<b><u>Supply and install a prefabricated building structure complete as per drawing 2.14 attached to these bills of quantities</u></b>			
3	Supply, deliver and erect a complete size 7.21 x 8.71m approved prefabricated classroom, including for the provision of foundations, epoxy-coated aluminium sliding or top-hung outward opening windows, factory glazed complete, suitable door frames and timber doors; double pitched roof construction and with purlins supporting approved Chromadek baked enamel roof sheeting, brandering and approved ceilings and with teacher's cupboards, fixed writing boards, and factory manufactured pinning boards; vinyl tiles, electrical and complete in every way	No	1	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 5 Temporal Classrooms			

<b>Brought Forward</b>			R
4	Supply, deliver and erect a complete size 8.52 x 8.24m approved prefabricated office structure, including for the provision of foundations, epoxy-coated aluminium sliding or top-hung outward opening windows, factory glazed complete, suitable door frames and timber doors; double pitched roof construction and with purlins supporting approved Chromadek baked enamel roof sheeting, brandering and approved ceilings and with teacher's cupboards, fixed writing boards, and factory manufactured pinning boards; vinyl tiles, electrical and complete in every way	No	1
5	Supply, deliver and erect a complete size 8.52x 8.50m approved prefabricated kitchen structure, including for the provision of foundations, epoxy-coated aluminium sliding or top-hung outward opening windows, factory glazed complete, suitable door frames and timber doors; double pitched roof construction and with purlins supporting approved Chromadek baked enamel roof sheeting, brandering and approved ceilings and with teacher's cupboards, fixed writing boards, and factory manufactured pinning boards; vinyl tiles, electrical and complete in every way	No	1
<b><u>TANKS AND STANDS</u></b>			
<b><u>Excavations, Filling, Etc.</u></b>			
6	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	9
7	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	29
8	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	3
9	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	12
<b><u>30MPa/20mm concrete:</u></b>			
10	Surface beds cast against excavated surfaces	m3	2
<b>Carried Forward</b>			R
Section No. 3 Bill No. 5 Temporal Classrooms			



<b>Brought Forward</b>			R
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>			
11	One brick walls in foundations.	m2	14
<b><u>External cement plaster on brick walls:</u></b>			
12	On walls.	m2	14
<b><u>Tanks, etc.</u></b>			
13	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	3
14	"Cobra" or similar approved RB hose bip tap (108-20) with a 3/4 hose union	No	3
15	Hole through top of tank lid for 100mm diameter pipe.	No	3
<b><u>The following in french drain soakaway 5m long</u></b>			
16	Excavate in earth not exceeding 2 m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed for french drain soakaway	m3	36
17	Allow for keeping excavations free of water		Item
18	Allow for risk of collapse of side of trench excavations exceeding 1.5 m deep	m2	12
19	Topsoil carted on top of Bidum (elsewhere) spread and levelled	m3	1
20	Imported 38mm Crushed stone in french drain soakaway	m3	3
21	Kaymat U24 laid in french drain soakaway	m2	13
22	100 mm Diameter perforated santar piping laid in french drain soakaway	m	5
<b>Carried Forward</b>			R
Section No. 3			
Bill No. 5			
Temporal Classrooms			

		<b>Brought Forward</b>		<b>R</b>
23	Extra over for 100 mm Junction	No	2	
<b><u>DISMANTLE, TRANSPORT AND MAKE GOOD</u></b>				
<b><u>Relocating module units on Site:</u></b>				
24	Dismantle a pre-fabricated structures size 8 x 7.5m located in a 200km radius from site, transport and erect on site as per the manufacturer's recommendations.	No	9	
25	Dismantle a pre-fabricated structures size 25.25 x 7.5m located in a 200km radius from site, transport and erect on site as per the manufacturer's recommendations.	No	1	
<b>Carried Forward to Summary of Section No. 3</b>				
Section No. 3				
Bill No. 5				
Temporal Classrooms				
				<b>R</b>

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

Bill No		Page No	Amount
1	Demolitions, Bulk Earthworks, etc..	130	-----
2	Walkways and Ramps	134	-----
3	Stormwater & Soil Drainage	141	-----
4	Water Reticulation	150	-----
5	Temporal Classrooms	154	-----
<b>Carried to Final Summary</b>			R
Section No. 3			-----
			-----

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>OCCUPATIONAL HEALTH &amp; SAFETY</u></b>			
	<b><u>Health and Safety</u></b>			
1	Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative	Item		
2	Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals	Item		
3	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item		
4	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7] for the duration of the contract (4 MONTHS)	Item		
5	Allow for the appointment of a Full-Time Competent Construction Health & Safety Officer registered with <b>SACPCMP</b> (who has 3 to 5 years working experience) to assist in the control of all health and safety related aspects on site as per [CR 8(5)] for the duration of the contract (8 MONTHS)	Item		
6	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site as per [CR 8(1),(2), &(7) for the duration of the contract (4 months)	Item		
7	Allow for provision of telecommunication facilities for the appointed Construction Health & Safety Officer	Item		
8	Allow for provision of Basic Emergency Preparedness and Response equipment & at least Level 2 First Aider/s	Item		
	<b>Carried Forward</b>		R	
	Section No. 4 Bill No. 1 Health and Safety			

<b>Brought Forward</b>		R
<p><b><u>Provide, supply and maintenance for each worker the following SANS approved personal protective equipment &amp; clothing as per the site-specific risk assessments:</u></b></p>		
9	Hard Hats(High Density polyethylene, & 6-point lining)	Item
10	Overall/work suit (100% Cotton)	Item
11	Safety boots/shoes (Steel-Toe)	Item
12	Safety gloves	Item
13	Ear Plugs/Muffs	Item
14	Dust Mask (at least FF2 type)	Item
15	Respirators	Item
16	Safety goggles	Item
17	Personal Fall arrest and rescue equipment with and including life lines and associated equipment	Item
18	High visibility reflective vests and/or bibs	Item
19	Temporary handrails, toe boards other than for access scaffolding	Item
20	Temporary warning signs and symbols	Item
21	SANS approved safety netting (orange color with minimum of 1,2 meters high)	Item
22	Provision for the supply and maintenance of Road Traffic Signs as in terms of the South African Road Traffic Signs Manual complete	Item
23	Allow for Pre-employment medical examinations	Item
24	Allow for exit medical examinations	Item
<p><b><u>Covid-19 Items</u></b></p>		
25	Hand-Held "No touch" Thermometer	Item
<b>Carried Forward</b>		R
<p>Section No. 4 Bill No. 1 Health and Safety</p>		

<b>Brought Forward</b>		R
26	Awareness and warning signage(s)	Item
27	Disposal of contaminated material	Item
28	Sanitizing spraying chemical	Item
29	Supply of soap	Item
30	Cloth Face Masks	Item
31	Face shield (only for screening person)	Item
32	Latex gloves (only for screening person)	Item
33	Preparation of Addendum Covid-19 Health and Safety Plan (Including Risk Assessment)	Item
34	Medical Waste bins and plastics	Item
35	Disinfecting of site before commencement of Construction Works	Item
<b><u>Health and Safety Education</u></b>		
36	Allow for HIV/AIDS awareness and Implementation programmes, including STI and TB	Item
37	Allow for all compulsory health and safety awareness programme (e.g. Inductions, toolbox Talks, Safety Promotions, H&S related training, COVID-19 etc.)	Item
<b><u>Environmental</u></b>		
38	Provide for adequate handling and storage of materials to minimize contamination of ground, air or water	Item
39	Provide for the adequate and safe collection and disposal of waste material from site by an approved method.	Item
40	Provide Facilities and Eating Area for workers.	Item
41	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications.	Item
42	Provide for stockpiling of topsoil for re-use	Item
<b>Carried Forward</b>		R
Section No. 4		
Bill No. 1		
Health and Safety		

**Brought Forward**

43

Provide for a Responsible person to prepare and update Method Statements, conduct regular inspections, maintain records, and report to the Principal Agent

**Compulsory for the adjustment of preliminaries**

Fixed: \_\_\_\_\_

Value: \_\_\_\_\_

Time: \_\_\_\_\_

Item

R

**Carried to Final Summary**

R

Section No. 4  
Bill No. 1  
Health and Safety

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PROVISIONAL AMOUNTS</u></b>			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
1	Provide a sum of R 2 500 000.00 (Two Million Five Hundred Thousand Rand) for Electrical Installation.	Item		2,500,000.00
2	Allow for profit.	Item		
3	Allow for attendance.	Item		
	<b><u>MECHANICAL INSTALLATION</u></b>			
4	Provide a sum of R 650 000.00 (Six Hundred and Fifty Thousand Rand) for Mechanical Installation.	Item		650,000.00
5	Allow for profit.	Item		
6	Allow for attendance.	Item		
	<b><u>EMPLOYMENT OF GRADUATES &amp; IN-SERVICE STUDENTS</u></b>			
7	Allow the sum of R 216 000.00 (Two Hundred and Sixteen Thousand Rands) for the placement of one (1) graduate(R12000.00) to be employed by the Main Contractor for the duration of the Contract stipulated in the tender document.(18 months)	Item		216,000.00
8	Allow for attendance.	Item		
9	Provide the sum of R270 000.00 (Two Hundred and Seventy Thousand Rands Only) for the placement of two students within the built environment to be employed by the main contractor (R7 500.00 per student per month for 18 months	Item		270,000.00
10	Allow for attendance.	Item		
	<b>Carried Forward</b>			
	Section No. 5 Bill No. 1 Provisional Sums		R	



<b>Brought Forward</b>		R
<b><u>TRAINING OF LOCAL LABOURS / WORKERS</u></b>		
11	Provide the sum of R200 000.00 (Two Hundred Thousand Rands) for the training of local labours	Item 200,000.00
12	Allow for attendance.	Item
<b><u>COMMUNITY LIASON OFFICER</u></b>		
13	Provide the sum of R108 000.00 (One Hundred and Eighty Thousand Rands Only) for the placement of a community liason officer to be employed by the main contractor (R6 000.00 per month for 18 months)	Item 108,000.00
14	Allow for attendance.	Item
<b><u>EMPLOYMENT OF LEARNERS (APTCoD)</u></b>		
15	Provide the sum of R495 000.00 (Four Hundred and Ninety Five Thousand Rands Only) for the placement of Five (05) trade tested artisan graduate to be employed by the main contractor (R5 500.00 per artisan per month for 18 months)	Item 495,000.00
16	Allow for attendance.	Item
<b><u>PROJECT STEERING COMITTEE</u></b>		
17	Provide the sum of R45 000.00 (Forty Five Thousand Rand Only) for the paying of five members of the Project Steering Committee to attend one sitting per month at R500.00 (Five Hundred Rand Only per person per sitting)	Item 45,000.00
18	Allow for attendance.	Item
<b><u>SMME MENTOR</u></b>		
19	Provide the sum of R540 000.00 (Five Hundred and Forty Thousand Rand Only) for the paying of one SMME Mentor for the employemnt on a full time basis for the duration of the contract(R30 000.00 per month gross salary).	Item 540,000.00
20	Allow for attendance.	Item
<b>Carried Forward</b>		R
Section No. 5 Bill No. 1 Provisional Sums		

**Brought Forward**

R

**BOREHOLE INSTALLATION**

21 Provide the sum of R 500 000.00 (Five Hundred Thousand Rands) for borehole and pump supplied and installed complete.

Item 500,000.00

22 Profit

Item

23 Allow for general attendance

Item

**RELOCATION OF PRE-FABRICATED CLASSROOMS**

24 Allow the sum of R300 000.00 (Two Hundred Thousand Rands) for relocation of existing pre-fabricated structures to a location in a 100km radius from the school.

Item 300,000.00

25 Allow for profit.

Item

26 Allow for attendance.

Item

**Carried to Final Summary**

R

Section No. 5  
Bill No. 1  
Provisional Sums

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 6</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>SMME PACKAGES</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Conditions of Local SMME packages:</u>			
	The following provisional sums are for the work to be executed by local SMME's which will be regarded as sub-contractors to the main contractors. The works are not limited to the identified works and allocation will be to the discretion and approval of the Principal Agent.			
	<b><u>BOYS, GIRLS &amp; STAFF ABLUTIONS</u></b>			
1	Provide the amount of R 2 130 000.00 (Two Million One Hundred and Thirty Thousand Rands) for the construction of boys, girls and staff ablutions	Item		2,130,000.00
2	Profit	Item		
3	Attendance	Item		
	<b><u>GRADE R CLASSROOMS AND ABLUTIONS</u></b>			
4	Provide the amount of R 2 460 000.00 (Two Million Four Hundred and Sixty Thousand Rands) for the construction of grade R classroom and Ablutions	Item		2,460,000.00
5	Profit	Item		
6	Attendance	Item		
	<b><u>ROADWORKS AND PARKING</u></b>			
7	Provide the amount of R535 000.00 (Five Hundred and Thirty Five Thousand Rands) for construction of parking as per Engineers specification and schedules to be done by a local SMME contractor.	Item		535,000.00
8	Profit	Item		
	<b>Carried Forward</b>		R	
	Section No. 6 Bill No. 1 SMME Packages			

**CONSTRUCTION OF NKOPANE JSS**

**SCMU.....**

		<b>Brought Forward</b>		R
9	Attendance		Item	
	<b><u>REFUSE ROOM</u></b>			
10	Provide the amount of R340 000.00 (Three Hundred and Forty Thousand Rands) for construction of the refuse room		Item	340,000.00
11	Profit		Item	
12	Attendance		Item	
	<b><u>GUARD HOUSE</u></b>			
13	Provide the amount of R220 000.00 (Two Hundred and Twenty Thousand Rands) for construction of the guard house		Item	220,000.00
14	Profit		Item	
15	Attendance		Item	
	<b><u>ENTRANCE WALL &amp; SECURITY FENCING</u></b>			
16	Provide the amount of R2 350 000.00 (Two Million Three Hundred and Fifty Thousand Rands) for construction of entrance walls and security fencing.		Item	2,350,000.00
17	Profit		Item	
18	Attendance		Item	
	<b><u>LANDSCAPING AND FLAGPOLES</u></b>			
19	Provide the amount of R 570 000.00 (Five Hundred and Seventy Thousand Rands) for landscaping and flagpoles		Item	570,000.00
20	Profit		Item	
21	Attendance		Item	
	<b><u>SANDPIT AND PLAYGROUND EQUIPMENT</u></b>			
22	Provide the amount of R 360 000.00 (Three Hundred and Sixty Thousand Rand) for sandpit and playground equipment		Item	360,000.00
		<b>Carried Forward</b>		R
	Section No. 6			
	Bill No. 1			
	SMME Packages			

**CONSTRUCTION OF NKOPANE JSS**

**SCMU.....**

		<b>Brought Forward</b>		R
23	Profit		Item	
24	Attendance		Item	
<b><u>ASSEMBLY AREA</u></b>				
25	Provide the amount of R 270 000.00 (Two Hundred and Seventy Thousand Rand) for construction of the assembly slab		Item	270,000.00
26	Profit		Item	
27	Attendance		Item	
<b><u>TANK STANDS AND TANKS</u></b>				
28	Provide the amount of R560 000.00 (Five Hundred and Sixty Thousand Rands) for construction of tank stands and tanks.		Item	560,000.00
29	Profit		Item	
30	Attendance		Item	
<b>Carried to Final Summary</b>				
Section No. 6				
Bill No. 1				
SMME Packages				

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION NO 1: PRELIMINARIES	40	
2	SECTION NO 2: BUILDING WORKS	127	
3	SECTION NO 3: EXTERNAL WORKS	155	
4	SECTION NO 4: HEALTH AND SAFETY	159	
5	SECTION NO 5: PROVISIONAL SUMS	162	
6	SECTION NO 6: SMME PACKAGES	165	
	SUB-TOTAL		R
	<b><u>CONTINGENCIES</u></b>		
	Allow the sum of R3 000 0000.00 (Three Million Rands for Contingencies to be used or deducted in full at the Principal Agent's discretion.		R 3,000,000.00
	<b><u>ESCALATION</u></b>		
	Provide the sum of R3 000 000,00 (Three Million Rands) for CPAP (Escalation) to be used in terms of the Principal Building Agreement/Conditions Of Contract.		R 3,000,000.00
	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