

Bills of Quantities  
for



**education**

Department:  
Education  
**PROVINCE OF KWAZULU-NATAL**

Asbestos Replacement  
for  
Isuthundu Primary School

Section No. 1  
Cover Page  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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## DEFINITIONS

### 1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

Clause 1.1 Definition of "**Commencement Date**" is added:

"**COMMENCEMENT DATE**" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "**Construction Guarantee**" is amended by replacing it with the following:

"**CONSTRUCTION GUARANTEE**" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"**CONSTRUCTION PERIOD**" means the period commencing on the **commencement date** and ending on the date of **practical completion**

Clause 1.1 Definition of "**Corrupt Practice**" is added:

"**CORRUPT PRACTICE**" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

"**FRAUDULENT PRACTICE**" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

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Clause 1.1 Definition of "**Interest**" is amended by replacing it with the following:

**"INTEREST"** means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)

Clause 1.1 Definition of "**Principal Agent**" is amended by replacing it with the following:

**"PRINCIPAL AGENT"** means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**

Clause 1.1 Definition of "**Security**" is amended by replacing it with the following:

**"SECURITY"** means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

No clause

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**OBJECTIVE AND PREPARATION**

**2 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

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

Item

**3 A3.0 DOCUMENTS**

Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

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

Clause 3.10 is amended by replacing the second  
reference to "**principal agent**" with the word "**employer**"

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

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**4 A4.0 DESIGN RESPONSIBILITY**

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

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related: \_\_\_\_\_

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5 **A5.0 EMPLOYER'S AGENTS**

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8

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

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6 **A6.0 SITE REPRESENTATIVE**

Clause 6.0

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

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7 **A7.0 COMPLIANCE WITH REGULATIONS**

Clause 7.0

Note: A separate clause has been included in Section C : Specific Preliminaries of the **bills of quantities / lump sum document** for the **contractor** to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification

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

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8 **A8.0 WORKS RISK**

Clause 8.0

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

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9 **A9.0 INDEMNITIES**

Clause 9.0

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10 **A10.0 WORKS INSURANCES**

Clause 10.0

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

**10.5 Damage to the Works**

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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**10.6 Injury to Persons or loss of or damage to Properties**

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

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- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

### 10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is 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

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**10.7.2 Injury to persons or loss of or damage to property**

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

**10.7.3** It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

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

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11 **A11.0 LIABILITY INSURANCES**

Clause 11.0

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

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12 **A12.0 EFFECTING INSURANCES**

Clause 12.0

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

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13 **A13.0 No clause**

N/A

14 **A14.0 SECURITY**

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them  
with the following:

14.1 In respect of contracts with a **contract sum** up to  
R1 million, the **security** to be provided by the  
**contractor** to the **employer** will be a payment reduction  
of five per cent (5%) of the value certified in the  
**payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a  
**payment certificate** shall be *mutatis mutandi* in terms  
of 31.8(A)

14.1.2 The **employer** shall be entitled to recover  
expense and loss from the payment reduction in terms  
of 33.0 provided that the **employer** complies with the  
provisions of 33.4 in which event the **employer's**  
entitlement shall take precedence over his obligations to  
refund the payment reduction **security** or portions  
thereof to the **contractor**

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14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

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14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **construction guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable **Construction Guarantee** form included in the invitation to tender

14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

14.5 Where **security** as a fixed **construction guarantee** of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last certificate of **practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

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14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

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14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

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

## **EXECUTION**

### 15 **A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of **commencement date**

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	<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 15.1.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
16	<p><b>A16.0 ACCESS TO THE WORKS</b></p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
17	<p><b>A17.0 CONTRACT INSTRUCTIONS</b></p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of <b>nominated</b> and <b>selected subcontractors</b>"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
18	<p><b>A18.0 SETTING OUT OF THE WORKS</b></p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
19	<p><b>A19.0 ASSIGNMENT</b></p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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20	<p><b>A20.0 NOMINATED SUBCONTRACTORS</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 <b>nominated subcontractors</b> executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
21	<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		
22	<p><b>A22.0 EMPLOYER'S DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
23	<p><b>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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**COMPLETION**

**24 A24.0 PRACTICAL COMPLETION**

Clause 24.0

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

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**25 A25.0 WORKS COMPLETION**

Clause 25.0

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

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**26 A26.0 FINAL COMPLETION**

Clause 26.0

Clause 26.1.2 is amended by inserting "#" next to 26.1.2

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

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**27 A27.0 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

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

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**28 A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
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29 **A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

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

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30 **A30.0 PENALTY FOR NON-COMPLETION**

Clause 30.0

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

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**PAYMENT**

31 **A31.0 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"

Clause 31.8 is amended by replacing it with the following two alternative clauses:

**Alternative A**

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

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31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

#### Alternative B

31.8(B) Where **security** as a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

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	<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>			
32	<p><b>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</b></p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the <b>contractor</b>"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
33	<p><b>A33.0 RECOVERY OF EXPENSE AND LOSS</b></p> <p>Clause 33.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
34	<p><b>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</b></p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where <b>security</b> as a fixed <b>construction guarantee</b> in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</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		
	<b>Carried to Collection</b>		R	
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35 **A35.0 PAYMENT TO OTHER PARTIES**

Clause 35.0

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

**CANCELLATION**

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

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

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: \_\_\_\_\_

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

Clause 37.0

Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"

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: \_\_\_\_\_

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

Clause 38.0

Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"

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

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39	<p><b>A39.0 CANCELLATION - CESSATION OF THE WORKS</b></p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) <b>working days</b> of completion of such a report"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><b><u>DISPUTE</u></b></p>	Item		
40	<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 costs concerning the mediation and equally share the costs of the <b>mediator</b> and related costs</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><b><u>SUBSTITUTE PROVISIONS</u></b></p>	Item		
41	<p><b>A41.0 STATE CLAUSES</b></p> <p>Clause 41.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
Carried to Collection			R	
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**CONTRACT VARIABLES**

42 **A42.0 THE SCHEDULE (DPW-04EC)**

Clause 42.0

Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract

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

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## **SECTION B: JBCC PRELIMINARIES**

### **B1.0 DEFINITIONS AND INTERPRETATION**

#### **B1.1 Definitions and interpretation**

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

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

Item

### **B2.0 DOCUMENTS**

#### **B2.1 Checking of documents**

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

Item

#### **B2.2 Provisional bills of quantities**

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

Item

#### **B2.3 Availability of construction documentation**

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

Item

#### **B2.4 Interests of agents**

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

Item

#### **B2.5 Priced documents**

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

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49	<p><b>B2.6 Tender submission</b></p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b>B3.0 THE SITE</b></p>	Item
50	<p><b>B3.1 Defined works area</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
51	<p><b>B3.2 Geotechnical investigation</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
52	<p><b>B3.3 Inspection of the site</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
53	<p><b>B3.4 Existing premises occupied</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
54	<p><b>B3.5 Previous work - dimensional accuracy</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
55	<p><b>B3.6 Previous work - defects</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
56	<p><b>B3.7 Services - known</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item

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57	<b>B3.8 Services - unknown</b> Fixed: _____ Value related: _____ Time related: _____	Item
58	<b>B3.9 Protection of trees</b> Fixed: _____ Value related: _____ Time related: _____	Item
59	<b>B3.10 Articles of value</b> Fixed: _____ Value related: _____ Time related: _____	Item
60	<b>B3.11 Inspection of adjoining properties</b> Fixed: _____ Value related: _____ Time related: _____	Item
<b><u>B4.0 MANAGEMENT OF CONTRACT</u></b>		
61	<b>B4.1 Management of the works</b> Fixed: _____ Value related: _____ Time related: _____	Item
62	<b>B4.2 Programme for the works</b> Fixed: _____ Value related: _____ Time related: _____	Item
63	<b>B4.3 Progress meetings</b> Fixed: _____ Value related: _____ Time related: _____	Item
64	<b>B4.4 Technical meetings</b> Fixed: _____ Value related: _____ Time related: _____	Item
65	<b>B4.5 Labour and plant records</b> Fixed: _____ Value related: _____ Time related: _____	Item

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**B5.0 SAMPLES, SHOP DRAWINGS AND  
MANUFACTURERS' INSTRUCTIONS**

66 **B5.1 Samples of materials**

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

Item

67 **B5.2 Workmanship samples**

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

Item

68 **B5.3 Shop drawings**

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

Item

69 **B5.4 Compliance with manufacturers' instructions**

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

Item

**B6.0 TEMPORARY WORKS AND PLANT**

70 **B6.1 Deposits and fees**

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

Item

71 **B6.2 Enclosure of the works**

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

Item

72 **B6.3 Advertising**

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

Item

73 **B6.4 Plant, equipment, sheds and offices**

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

Item

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74 **B6.5 Main notice board**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

75 **B6.6 Subcontractors' notice board**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

**B7.0 TEMPORARY SERVICES**

76 **B7.1 Location**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

77 **B7.2 Water**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

78 **B7.3 Electricity**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

79 **B7.4 Telecommunication facilities**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

80 **B7.5 Ablution facilities**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

**B8.0 PRIME COST AMOUNTS**

81 **B8.1 Responsibility for prime cost amounts**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

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**B9.0 ATTENDANCE ON N/S  
SUBCONTRACTORS**

82 **B9.1 General attendance**

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

Item

83 **B9.2 Special attendance**

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

Item

84 **B9.3 Commissioning - fuel, water and electricity**

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

Item

**B10.0 FINANCIAL ASPECTS**

85 **B10.1 Statutory taxes, duties and levies**

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

Item

86 **B10.2 Payment for preliminaries**

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

Item

87 **B10.3 Adjustment of preliminaries**

Clauses B10.3.1 and B10.3.2 are amended by replacing  
"within fifteen (15) **working days** of taking possession  
of the **site**" with "when submitting his priced **bills of  
quantities / lump sum document**"

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

Item

88 **B10.4 Payment certificate cash flow**

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

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**B11.0 GENERAL**

89 ***B11.1 Protection of the works***

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

Item

90 ***B11.2 Protection / isolation of existing / sectionally  
occupied works***

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

Item

91 ***B11.3 Security of the works***

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

Item

92 ***B11.4 Notice before covering work***

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

Item

93 ***B11.5 Disturbance***

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

Item

94 ***B11.6 Environmental disturbance***

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

Item

95 ***B11.7 Works cleaning and clearing***

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

Item

96 ***B11.8 Vermin***

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

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97	<p><b>B11.9 Overhand work</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
98	<p><b>B11.10 Instruction manuals and guarantees</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
99	<p><b>B11.11 As built information</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
100	<p><b>B11.12 Tenant installations</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b><u>B12.0 SCHEDULE OF VARIABLES</u></b></p> <p><b>B12.1 Schedule of variables</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>This <b>schedule</b> contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these <b>Preliminaries</b></p> <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>	Item		
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12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

The **contractor** shall provide, maintain and remove on completion of the works an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times

12.1.14 **Main notice board**

[6.5] Specific requirements:

The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering

12.1.15 **Subcontractors' notice board**

[6.6] A notice board is required

YES/NO

Specific requirements:

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12.1.16 **Water**

[7.2] Option A (by **contractor**)  
YES/NO

Option B (by **employer** - free of charge)  
YES/NO

Option C (by **employer** - metered)  
YES/NO

12.1.17 **Electricity**

[7.3] Option A (by **contractor**)  
YES/NO

Option B (by **employer** - free of charge)  
YES/NO

Option C (by **employer** - metered)  
YES/NO

12.1.18 **Telecommunications**

[7.4] Telephone  
YES/NO

Facsimile  
YES/NO

E-mail  
YES/NO

12.1.19 **Ablution facilities**

[7.5] Option A (by **contractor**)  
YES/NO

Option B (by **employer**)  
YES/NO

12.1.20 **Protection of existing/sectionally occupied works**

[11.2] Protection is required  
YES/NO

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12.1.21 **Special attendance**  
[9.2] **Subcontractor** (1) details:

**Subcontractor** (2) details:

**Subcontractor** (3) details:

**Subcontractor** (4) details:

12.1.22 **Protection of the works**  
[11.1] Specific requirements:

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

12.1.24 **Environmental disturbance**  
[11.6] Specific requirements:

## 12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**  
[10.2] Option A (prorated)  
YES/NO

Option B (calculated)  
YES/NO

12.2.2 **Adjustment of preliminaries**  
[10.3] Option A (three categories)  
YES/NO

Option B (detailed breakdown)  
YES/NO

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12.2.3 *Additional agreed preliminaries items*  
Details:

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## **SECTION C: SPECIFIC PRELIMINARIES**

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

### 102 **C1.0 CONTRACT DRAWINGS**

*\* Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a **bills of quantities** or **lump sum document***

\* 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

\* A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

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

Item

### 103 **C2.0 GENERAL PREAMBLES**

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

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

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104	<p><b>C3.0 TRADE NAMES</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities / lump sum document</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		
105	<p><b>C4.0 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 DPW-23(EC) 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		
106	<p><b>C5.0 VIEWING THE SITE IN SECURITY AREAS</b></p> <p>The <b>site</b> is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the <b>site</b> for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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107 **C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS**

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account

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

Item

108 **C7.0 ENTRANCE PERMITS TO SECURITY AREAS**

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

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

Item

109 **C8.0 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
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110	<p><b>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</b></p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
111	<p><b>C10.0 HIV/AIDS AWARENESS</b></p> <p>It is required of the <b>contractor</b> to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b>. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The <b>contractor</b> must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>				
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**C10.1 AWARENESS CHAMPION**

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

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

Item

**C10.2 AWARENESS WORKSHOPS**

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

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

Item

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

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

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

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#### C10.4 ACCESS TO CONDOMS

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

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

Item

#### C10.5 MONITORING

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

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

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112 **C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

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

Item

113 **C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 4)**

The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 4. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work

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

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114	<p><b>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 7(1)(b))</b></p> <p>The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 7</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
115	<p><b>C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 7(1)(c)(iv))</b></p> <p>The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
116	<p><b>C11.4 HEALTH AND SAFETY FILE ( Construction Regulation 7(1)(b))</b></p> <p>The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
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117	<p><b>C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 8.5(6))</b></p> <p>The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work.</p> <p>The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
118	<p><b>C11.6 RISK ASSESSMENT AND SAFETY POLICY (Construction Regulation 9)</b></p> <p>Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection.</p> <p>The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 9</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No. 1 Preliminaries <b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b></p>		R	

119 **C11.7 SIGNIFICANT HAZARDA IDENTIFICATION  
RISK ASSESSMENT PREPARED BY THE DESIGN  
CONSULTANTS**

The contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants

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

Item

120 **C11.8 ADDITIONAL FINANCIAL PROVISION**

The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided

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

Item

121 **C11.9 FALL PROTECTION PLAN (Construction  
Regulation 10)**

The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file

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

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122	<p><b>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 7(8))</b></p> <p>The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
123	<p><b>C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT (Construction Regulation 23)</b></p> <p>The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
124	<p><b>C11.12 TRAINING (Construction Regulation 8 (c))</b></p> <p>The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall from part of the health and safety plan</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
125	<p><b>C11.13 DEMOLITION WORK (Construction Regulation 14)</b></p> <p>The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item		
<b>Carried to Collection</b>			R	
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126 **C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)**

The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for;  
**NOTIFICATION OF ASBESTOS PROCESSING  
PERSONAL PROTECTIVE EQUIPMENT  
PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE  
DEMOLITION WORK OF SHEETS  
LABELLING AND INFORMATION**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
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**Kwazulu Natal Department of Education  
Asbestos Replacement  
Isithundu Primary School**

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Total Brought Forward from Page No.	21		
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Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the contractor, until handing over thereof. The contractor must obtain an official receipt listing the contractor fails to submit the submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the contractor.

#### **DEALING WITH HAZARDOUS MATERIALS**

All hazardous materials, e.g. Asbestos, etc. must be removed and disposed off site by a specialist firm as per government regulations and environmental laws.

#### **ALTERATIONS AND DEMOLISHING**

All works demolished or removed, surfaces shall be prepare to new.

#### **Allow for the following requirements to the satisfaction of the Principal Agent**

##### **Site visit**

Tenderers are to visit and view the site and existng structures to be demolished to thoroughly acquaint themselves with the nature of demolitions, the nature and extent of the work and the conditions under which the works are to be done

##### **Existing structures**

In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the adjoining buildings and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage, deforming and/or defaced to the structure and/or building as well as the rectification of same will be for the Contracor's account.

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### **Existing Services**

Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. Any damage to such services shall be to the contractors account

### **Dust and noise**

The Contractor is to take all necessary precautions, to minimise noise levels and frequently watering of the works to minimise any nuisance from dust and to ensure the least interference with the general routine of the occupants and operation of the premises including all necessary labour, materials, etc. for so doing and

### **Disposal of debris**

The Contractor shall be responsible for the regular cleaning away all rubble, debris, rubbish, unusable materials, etc. as the work proceeds and for leaving the works in a clean and satisfactory state upon completion suitable for use and occupation, including all necessary labour, materials or plant, etc. for so doing

### **Old materials**

Old materials from the alterations, except where described shall remain the property of the client.

### **Old materials to be carted away**

Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.

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**Handing over of materials**

Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

**Temporary support to openings through existing walls**

Making openings, altering openings in existing walls and removing lintols above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling strutting, turning pieces, etc. to wall openings is deemed to be included in the Contractor's rates.

**Electrical And Mechanical**

Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included. Contractor to note items with barcodes (asset numbers) cannot be removed without prior arrangement with authorities

NOTE:-

Contractor to note that items with barcodes, cannot be disposed or removed from site prior to arranging with Client

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**Key:**                      **Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

**DELAYS/STANDING TIME**

- 1 Allow for delays (standing time) in arranging with the User-Client in moving from the occupied building to the temporary structures to be arranged by the contractor (Temporary structures elsewhere measured)
- 2 Contractor to take note that the School is a fully operation building and what so ever works that will need to take place should not disturb the operations of the School. Contractor to make provision for construction to make place at a time in which the School will not be disturbed and to inform the User-Cleint/principal agent on the planned method of construction (Rate will include all methodology of operation and the effect thereof, etc.

Item

Item

**TEMPORARY BARRIERS, SCREENS, ETC**

**Temporary barriers, screens, etc including removal on completion**

- 3 Barrier 3000mm high separating main building from occupied buildings, formed of galvanised steel channel section rails and studs filled with minimum 12,7mm timber panels, including corners, ends, etc

m

300

A : 0              B : 0              C : 0              D : 0  
E : 0              G : 300              H : 0              I : 0  
J : 0

**DEALING WITH HAZARDOUS MATERIALS**

**SUPPLEMENTARY PREAMBLES**

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**DEMOLITION WORK (REGULATION 21  
ASBESTOS REGULATIONS 2001)**

In terms of the Asbestos Regulations GNR 155 of 2002, any person who intends to carry out asbestos work must be a Registered Asbestos Contractor, with the Department of Labour, before commencing with asbestos work. In terms of Asbestos Regulations "Registered Asbestos Contractor" means a mandatory or employer conducting demolition of asbestos work, who is registered with the Chief inspector of the Department of Labour.

**Notification of Intent and Contents of the Plan of work.**

Notify all relevant authorities before starting on asbestos related work in writing including submission of Contents of the Plan of Work.

**Method for handling and removing of Asbestos and Asbestos Containing Material During Demolition Work.**

Provide for approval the method statement and remove existing Asbestos ceiling boards including cornices, cover and jointing strips in accordance with the approved method.

**Respirators**

Provide employees with respirators approved by the chief inspector for use when working with asbestos in a work place area not more than 100m<sup>2</sup> in size.

**Protective clothing**

Suitable clothing overalls or similar full-body protective clothing with head covering and gumboots in a work place area not more than 100m<sup>2</sup> in size.

Arrange for the disposal or laundering of protective clothing a work place area not more than 100m<sup>2</sup> in size.

Ensure that protective clothing is removed from the premises only for laundering or disposal and then only if suitably packed in a sealed impermeable container, and that it is clearly labelled with a warning label as

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containing asbestos contaminated clothing in a work place area not more than 100m<sup>2</sup> in size.

**Decontamination facilities and personal hygiene.**

Set-up decontamination facilities, for a work place area not more than 100m<sup>2</sup> in size, outside the workplace for the exclusive use of employees exposed to asbestos. These facilities shall consist of a "clean" change-room, toilet/shower facilities and a "dirty" decontamination change-room with vacuum-cleaners for the preliminary de-dusting of protective clothing in a total work place area not more than 100m<sup>2</sup> in size.

**Workplace isolation and preparation.**

Isolate the workplace area not more than 100m<sup>2</sup> in size for the duration of the work by completely sealing off all openings to and fixtures in the workplace, such as doors, windows, ventilation ducts and lighting. Strong plastic sheeting, with all joints carefully sealed, which is taped securely in place, provides an effective form of isolation.

Post signs in and around a work place area not more than 100m<sup>2</sup> in size conspicuously, prohibiting people from and warning them against entering the workplace.

Vacuum-clean all removable items in a work place area not more than 100m<sup>2</sup> in size and equipment that are not attached to asbestos-containing material, remove them from the workplace, and only return them to the workplace after the work has been completed and the workplace has been decontaminated.

Vacuum-clean and then cover all non-removable items and equipment in a work place area not more than 100m<sup>2</sup> in size with plastic sheeting that is taped securely in place or by other suitable means.

Remove all air filters from air-conditioners and ventilation equipment, in a work place area not more than 100m<sup>2</sup> in size, and place them in impermeable bags or similarly effective containers that are sealable for disposal (the outside of all containers shall be cleaned before leaving the workplace).

Establish emergency and fire exits in a work place area not more than 100m<sup>2</sup> in size and ensure that employees

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are informed of emergency procedures, which procedures shall have priority over all other procedures.

**Disposal of waste.**

**The Registere Asbestos Contractor will be responsible to locate a suitable waste disposal site and will ensure that the asbestos waste is disposed of in a suitable manner in accordance with the Asbestos Regulations.**

Collect asbestos section per section 100m<sup>2</sup> in size from where work is in progress and place in impermeable plastic bags or similarly effective containers. Before leaving the workplace all containers shall be cleaned on the outside and labelled, and, in the case of bags, the bag containing the waste shall be placed in another clean bag, sealed and labelled.

Place all plastic sheeting, tape, cleaning material, clothing and all other disposable items used in a work place area not more than 100m<sup>2</sup> in size into impermeable plastic bags or similarly effective containers and clean on the outside and label.

Dispose of the abestos waste, removed from ceilings in a work place area not more than 100m<sup>2</sup> in size, only on waste disposal sites specifically designated for this purpose in terms of the Environment Conservation Act, 1989 (Act 73 of 1989) and provide disposal certificates at completion.

The rate shall include for the arrangements made for the asbestos disposal which shall be agreed upon with the appropriate local authority as wells as transport of waste in a suitable waste containment vehicle from the site to the waste disposal site indicated by the Asbestos Contractor.

**Decontamination of the workplace.**

Clean all surfaces in a work place area not more than 100m<sup>2</sup> in size, by first using vacuum cleaning equipment with a filtration efficiency of 99% for particles of one micrometre in size and then wet mops.

**Air sampling.**

Conduct frequent air sampling throughout the entire operation to ensure that the operation does not cause a

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hazard inside or outside in a work place area not more than 100m2 in size and provide record keeping on a daily basis.

**All hazardous materials, e.g. Asbestos, etc. must be removed and disposed off site by a specialist firm as per government regulations and environmental laws.**

4	Profiled or Asbestos roof sheeting	m2	399		
	A : 0      B : 0      C : 150      D : 249				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

### **DEMOLISHING**

#### **Demolishing of existing structures**

5	Single storey building consists of six classrooms with pitched roof of 25 degree approximately 54,119 x 9,064m on plan and with 3m high at eaves comprising concrete surface bed, one brick external walls and internal walls and Asbestos roof covering on prefabricated wooden trusses, including carting away debris and rubble materials away off site to a dumping site approved by the Environmental Engineer. The area to be rehabilitated by backfilling and compacted for reconstruction of new building (6 Classroom Block).	No	1		
	A : 0      B : 0      C : 0      D : 0				
	E : 0      G : 1      H : 0      I : 0				
	J : 0				

6	Single storey building consists of three classrooms with pitched roof of 25 degree approximately 23,788 x 8.004m on plan and with 3m high at eaves comprising concrete surface bed, one brick external walls and internal walls and Asbestos roof covering on prefabricated wooden trusses, including carting away debris and rubble materials away off site to a dumping site approved by the Environmental Engineer. The area to be rehabilitated by backfilling and compacted for reconstruction of new building (Storeroom & Staffroom).	No	1		
	A : 0      B : 0      C : 0      D : 0				
	E : 0      G : 1      H : 0      I : 0				
	J : 0				

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7	<p>10.5 x 4.6 x 2.5m High overall comprising of brick wall, concrete foundation, sanitary fittings, 5 x 2 x 2m Deep pit with brick lining, all materials to be cart off site to a dumping site approved by the Environmental Engineer.  NOTE: Pit full of sludge/human waste, etc.  Pit to be backfilled and compacted to 93% Mod AASHTO density to the satisfaction of the Civil Engineer.(4G Ablution Block)</p> <p>A : 0      B : 0      C : 0      D : 0  E : 0      G : 1      H : 0      I : 0  J : 0</p>	No	1				
8	<p>10.5 x 4.6 x 2.5m High overall comprising of brickwall, concrete foundation, sanitary fittings, 5 x 2 x 2m Deep pit with brick lining, all materials to be cart off site to a dumping site approved by the Environmental Engineer.  NOTE: Pit full of sludge/human waste, etc.  Pit to be backfilled and compacted to 93% Mod AASTHO density to the satisfaction of the Civil Engineer.(4B Ablution block)</p> <p>A : 0      B : 0      C : 0      D : 0  E : 0      G : 1      H : 0      I : 0  J : 0</p>	No	1				
9	<p>10.5 x 4.6 x 2.5m High overall comprising of brickwall, concrete foundation, sanitary fittings, 5 x 2 x 2m Deep pit with brick lining, all materials to be cart off site to a dumping site approved by the Environmental Engineer.  NOTE: Pit full of sludge/human waste, etc.  Pit to be backfilled and compacted to 93% Mod AASTHO density to the satisfaction of the Civil Engineer.(2M2F1D Ablution block)</p> <p>A : 0      B : 0      C : 0      D : 0  E : 0      G : 1      H : 0      I : 0  J : 0</p>	No	1				
<b><u>ALTERATIONS</u></b>							
10	The contractor shall regularly clean and clear away all rubbish and unusable materials as the work proceeds, and on completion, leave the works in a clean and satisfactory state for immediate use and occupation.			Item			
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	<b><u>Breaking up and removing screeds, plaster, etc</u></b>						
11	Surface beds			m2	362		
	A : 0	B : 0	C : 113	D : 249			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
12	Ramps, aprons, etc.			m2	80		
	A : 0	B : 0	C : 40	D : 40			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
13	Internal plaster on walls			m2	60		
	A : 0	B : 0	C : 30	D : 30			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
14	External plaster on walls			m2	50		
	A : 0	B : 0	C : 10	D : 40			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
	<b><u>Taking out and removing brickwork, blockwork, etc.</u></b>						
15	Half brick walls			m2	80		
	A : 0	B : 0	C : 40	D : 40			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
16	One brick walls			m2	42		
	A : 0	B : 0	C : 21	D : 21			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u></b>						
17	Timber roof structure approximately 1800mm high including purlins, bracing, etc.			m2	399		
	A : 0	B : 0	C : 150	D : 249			
	E : 0	G : 0	H : 0	I : 0			
	J : 0						
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18	Gypsum plasterboard or fibre cement ceilings including cornices, timber banding, etc. A : 0      B : 0      C : 113      D : 0 E : 0      G : 0      H : 0      I : 0 J : 0	m2	113		
19	Gutters and down pipes from roofs to be demolished A : 0      B : 0      C : 48      D : 48 E : 0      G : 0      H : 0      I : 0 J : 0	m	96		
20	Gypsum plasterboard or fibre cement fascias and barge boards and prepare for new (elsewhere measured) A : 0      B : 0      C : 70      D : 70 E : 0      G : 0      H : 0      I : 0 J : 0	m	140		
	<b><u>Take out and remove doors, windows, etc. including thresholds, sills, etc. and prepare opening to receive new doors, frames, windows, etc. (all elsewhere measured)</u></b>				
21	Timber single door and frame not exceeding 2,5m2 A : 0      B : 0      C : 3      D : 3 E : 0      G : 0      H : 0      I : 0 J : 0	No	6		
22	4800 x 1200mm High Chalk Board A : 0      B : 0      C : 0      D : 3 E : 0      G : 0      H : 0      I : 0 J : 0	No	3		
23	2400 x 1200mm High pinning Board A : 0      B : 0      C : 3      D : 0 E : 0      G : 0      H : 0      I : 0 J : 0	No	3		

**Take out and remove single metal gate**

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**Taking out and removing glass and mirrors**

24	Glass from steel windows including cleaning out rebates and preparing for new (glass elsewhere)	m2	54		
	A : 0      B : 0      C : 27      D : 27				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**Taking out and removing floor coverings**

25	Take out and remove vinyl tile floor covering	m2	113		
	A : 0      B : 0      C : 113      D : 0				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**MAKING GOOD OF FINISHES, ETC.**

**Making good internal cement plaster**

26	Chase out plaster cracks to form recess 25mm wide and 20mm deep and fill with 1:4 cement mortar, including floating up smooth to match existing.	m	36		
	A : 0      B : 0      C : 6      D : 30				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**Making good external cement plaster**

27	To walls in small areas	m2	4		
	A : 0      B : 0      C : 2      D : 2				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**SERVICE EXISTING EQUIPMENT, REPAIRS, ETC.**

**Service existing steel windows**

28	Overhaul, adjust and service to ensure proper operation existing steel window unit not exceeding 2.5m2	No	54		
	A : 0      B : 0      C : 27      D : 27				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

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29	Extra on servicing existing steel window sash for supplying and replacing new brass fittings.	No	54		
	A : 0      B : 0      C : 27      D : 27				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**TEMPORARY STRUCTURES**

**Supply, install, commission and remove temporary Structure**

30	Supply, install, commission and remove after a period of 8 months as directed by the Principal Agent mobile classrooms, 7 x 7m internally, fully insulated and ventilated. This amount may be paid pro-rata as may be directed by the Principal Agent.	No	6		
	A : 0      B : 0      C : 3      D : 3				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

31	Supply, install, commission and remove after a period of 8 months as directed by the Principal Agent mobile toilets. This amount may be paid pro-rata as may be directed by the Principal Agent.	No	3		
	A : 0      B : 0      C : 0      D : 0				
	E : 0      G : 3      H : 0      I : 0				
	J : 0				

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For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"

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DEVELOPMENT BANK OF SOUTHERN AFRICA

## **SUPPLEMENTARY PREAMBLES**

### **Proprietary items or materials**

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the client or the client's agent

### **Nature of ground**

A soils investigation has been carried out on site by the Engineers and the report is available for inspection at their offices.

Description of excavations shall be deemed to include all ground condition classifiable as earth and where conditions of a more difficult character might be encountered might be encountered, these are separated measured.

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

### **Carting away of excavated material**

Description of carting away of excavated materials shall be deemed to include loading excavated materials onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.

### **Dewatering of excavations**

The Contractor shall allow for removing see page and other water from subterranean sources from the excavations by pumping, bailing or otherwise.

Accurate records of all such dewatering shall be kept to determine the total volume of volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.

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**Classification of excavated material**

“Hard rock” shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives

“Soft rock” shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact ouklip and material of similar hardness

“Earth” shall mean all ground other than that classified as “hard rock” or “soft rock” and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m<sup>3</sup> in volume

**Filling material (General)**

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior the re-use thereof as “filling”

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

**Filling in sub-layers, under floors, etc**

All filling in layers under surface beds, in sub-layers, to form earth mattresses, backfilling, etc. shall be done with materials specified and according to methods prescribed by the SANS 1200ME Sub-base Specification in layers of 150mm thickness

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The aforesaid specification was drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on the filling details and requirements prescribed for this project

The said specification, although not issued with, shall be regarded to form part of these Bills of Quantities. The Contractor shall obtain a copy of the said specification from the South African National Standards authority and be kept on site at all times

**CBR and indicator tests**

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior commencement of any placement thereof and/or filling done therewith

**Density tests**

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

- *Filling under surface beds, aprons, channels, etc:*  
1 Test per 125m<sup>2</sup> plan area per each 150mm thick layer
- *Filling behind retaining walls:*  
1 Tests per each 10m length of retaining wall

Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

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**Carting away excessive and/or unsuitable excavated material**

Descriptions for "carting away excessive or unsuitable excavated material from site" shall be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable and approved dumping site, which has to be located by the Contractor, off the premises

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor will also be liable to, upon completion, rehabilitate all those areas of the dumping site used dumping/spoiling by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

**Soil poisoning and insecticide**

All soil poisoning and insecticide to be applied under a *five year* guarantee by an approved firm of Specialists. Soil insecticides shall comply with SANS Specification 1165. Work shall be carried out in accordance with "The application of soil insecticides for the protection of buildings" - SANS Code of Practice 0124

Casting of concrete floors to start within 24 hours after the application of soil poisoning

*Pest control applicators must provide :*

1. Proof of pesticides and insecticides (data sheets)
2. Toxicants must be registered with the Department of Agriculture
2. Proof that they are qualified to perform the work
3. Five year guarantee certificate

**Measurement and payment**

Measurement and payment clauses as described in the above-mentioned specification, Standardized Specification for Civil Engineering Construction, shall not apply to the work as set out in this Bill

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**Subterranean water**

No information regarding subterranean water is available. The tenderer must acquit himself of the presence and depth of subterranean water and allow therefore in his prices

**Key:**

**Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

**SITE CLEARENCE**

**Nature of ground**

**Site clearance**

- 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc

m2

210

A : 0	B : 0	C : 0	D : 0
E : 60	G : 0	H : 40	I : 50
J : 60			

**REMOVAL OF TREES ETC**

**Taking out and removing, grubbing up roots and filling in holes**

- 2 Tree stump exceeding 200mm and not exceeding 500mm girth

No

**RATE ONLY**

A : 0.0	B : 0.0	C : 0.0	D : 0.0
E : 0.0	G : 0.0	H : 0.0	I : 0.0
J : 0.0			

**EXCAVATIONS**

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**Excavation in earth not exceeding 2m deep**

3	Pit	m3	315
	A : 0      B : 0      C : 0      D : 0		
	E : 90      G : 0      H : 60      I : 75		
	J : 90		
4	Trenches in pit	m3	26
	A : 0      B : 0      C : 0      D : 0		
	E : 8      G : 0      H : 5      I : 6		
	J : 8		
5	Trenches,holes, aprons, etc. for thickening under surface beds, etc.	m3	156
	A : 85      B : 42      C : 4      D : 4		
	E : 6      G : 0      H : 4      I : 5		
	J : 6		
6	Reduce levels under floors	m3	60
	A : 0      B : 0      C : 25      D : 25		
	E : 3      G : 0      H : 2      I : 3		
	J : 3		

**EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER**

**Extra over trench and hole excavations in earth for excavation in**

7	Intermediate material	m3	37	RATE ONLY
	A : 0      B : 0      C : 0      D : 0			
	E : 11      G : 0      H : 7      I : 9			
	J : 11			
8	Hard rock	m3	16	RATE ONLY
	A : 0      B : 0      C : 0      D : 0			
	E : 5      G : 0      H : 3      I : 4			
	J : 5			

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<b><u>Extra over all excavations for carting away</u></b>					
9	Surplus materials from excavations and/or stock piles on site or to a dumping site to be located by the contractor A : 59      B : 28      C : 29      D : 29 E : 93      G : 0      H : 62      I : 78 J : 93	m3	470		
<b><u>Risk of collapse of excavations</u></b>					
10	Sides of trench excavations not exceeding 1,5m deep A : 233      B : 121      C : 4      D : 4 E : 64      G : 0      H : 43      I : 54 J : 64	m2	587		
11	Sides of trench excavations exceeding 1,5m and not exceeding 2m deep A : 0      B : 0      C : 0      D : 0 E : 15      G : 0      H : 10      I : 13 J : 15	m2	53		
<b><u>Keeping excavations free of water</u></b>					
12	Keeping excavations free of water		Item		
<b><u>Earth filing (G5) supplied by the contractor, compacted to 95% Mod AASHTO Density</u></b>					
13	Under floors, steps, paving, aprons, etc. A : 65      B : 31      C : 29      D : 29 E : 5      G : 0      H : 3      I : 4 J : 5	m3	170		
14	Backfilling to sides trenches, holes, etc A : 65      B : 34      C : 0      D : 0 E : 3      G : 0      H : 2      I : 3 J : 3	m3	109		
<b><u>Soilcrete with 8% cement</u></b>					
15	Soilcrete with 8% cement in backfilling to working space A : 43      B : 21      C : 0      D : 0 E : 30      G : 0      H : 20      I : 25 J : 30	m3	169		
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**Compaction of surfaces**

16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	1 224		
	A : 431      B : 210      C : 153      D : 289				
	E : 41        G : 0        H : 27      I : 34				
	J : 41				

**Prescribed density tests on filling (no payment for compaction shall be allowed until compaction results are produced, only results which have passed the test shall be paid for)**

17	Modified AASHTO Density test	No	62		
	A : 16        B : 6        C : 0        D : 0				
	E : 4        G : 25      H : 3        I : 4				
	J : 4				

**SOIL POISONING**

**Approved insecticide solutions shall be mixed on site in the presence of clerk of works/engineer/principal agent in strict accordance with the manufacturers/suppliers specifications**

**Soil insecticide under a 5 year guarantee by an approved firm of registered specialists**

18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1 108		
	A : 431      B : 210      C : 113      D : 249				
	E : 30        G : 0        H : 20      I : 25				
	J : 30				
19	To bottom and sides of trenches, holes, aprons, etc	m2	644		
	A : 233      B : 121      C : 40        D : 40				
	E : 60        G : 0        H : 40      I : 50				
	J : 60				

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All concrete strength test cubes, each size 150 x 150 x 150mm, shall be prepared in a set of three

It will be required from the Contractor to prepare concrete strength test cube sets for each building at the following minimum frequencies:

- One set of three cubes for every 20m<sup>3</sup>, or part thereof, of concrete cast per day, or:
- One set of three cubes for each batch of concrete cast per event

All concrete strength test cubes shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the building and building identity) shall be properly recorded for future reference

#### **Reinforced concrete**

All reinforced concrete is to be compacted with a mechanical vibrator

#### **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 sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Principal Agent for design reasons. Formwork necessitated by irregularities 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 which is made for in "Earthworks"

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### Supervision

A competent and experienced foreman shall supervise personally the whole of the concrete construction and pay special attention to:

The quality, testing and mixing of materials;  
The placing and compaction of concrete;  
The construction and removal of formwork; and  
The sizes and position of the reinforcement

The contractor shall obtain the permission of the principal agent before comencing concreting of foundations, surface beds and reinforced structure

No inspection, approval, authorisation to proceed, comment or instructions following from such an inspection, or failure of the principal agent to comment on any particular aspect of the work shall be deemed to relieve the contractor in any way from his obligation to ensure through his own supervision that the work is constructed in every way in accordance with the drawings, specifications and conditions of contract, nor relieve him from his obligations to make good any fault or defect, nor shall it be deemed that there is any obligation on the principal agent to inspect all or any part of the works or that such inspection is necessarily complete in every respect

### Key:

### Location Description:

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

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**Reinforcement**

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

The mass of binding wire is not included in the mass of the reinforcement and the cost thereof must be included in the rates for reinforcement

**REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days**

1	Strip Footing in pit	m3	21		
	A : 0      B : 0      C : 0      D : 0				
	E : 6      G : 0      H : 4      I : 5				
	J : 6				
2	Bottom of pit	m3	21		
	A : 0      B : 0      C : 0      D : 0				
	E : 6      G : 0      H : 4      I : 5				
	J : 6				
3	Strip footing	m3	62		
	A : 34      B : 18      C : 0      D : 0				
	E : 3      G : 0      H : 2      I : 3				
	J : 3				
4	Suspended slabs, etc.	m3	11		
	A : 0      B : 0      C : 0      D : 0				
	E : 3      G : 0      H : 2      I : 3				
	J : 3				
5	Surface beds etc. on waterproofing	m3	111		
	A : 43      B : 21      C : 11      D : 25				
	E : 3      G : 0      H : 2      I : 3				
	J : 3				

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6	Walkways, ramps, aprons, etc. cast in panels A : 11      B : 6      C : 4      D : 4 E : 2      G : 0      H : 1      I : 1 J : 2	m3	32
<b><u>TEST CUBES</u></b>			
7	Allow for all necessary concrete test cubes size 150 x 150 x 150mm, cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SANS Method 861 and 863, including use of approved cube moulds. transporting to a approved testing laboratory for testing, paying all charges and submitting report to the Representative/Agent. A : 8      B : 4      C : 0      D : 0 E : 6      G : 20      H : 6      I : 6 J : 6	No	56
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing surfaces of concrete smooth with a woodfloat</u></b>			
8	Bottom of pit A : 0      B : 0      C : 0      D : 0 E : 23      G : 0      H : 15      I : 19 J : 23	m2	79
9	Surface beds, Suspended slabs, etc. A : 0      B : 0      C : 0      D : 0 E : 30      G : 0      H : 20      I : 25 J : 30	m2	105
10	Surface beds, slabs, aprons, etc. to falls. A : 542      B : 210      C : 153      D : 289 E : 11      G : 0      H : 7      I : 9 J : 11	m2	1 230

### **FORMWORK**

#### **(WORK GROUP 111)**

#### **SMOOTH FORMWORK (DEGREE OF ACCURACY III)**

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**Smooth formwork to sides**

11	Edges, risers and reveals not exceeding 300mm high	m	232		
	A : 55      B : 29      C : 40      D : 40				
	E : 20      G : 0      H : 13      I : 16				
	J : 20				

**Boxing in to form hole not exceeding 300mm Diameter.**

12	250mm Diameter hole	No	21		
	A : 0      B : 0      C : 0      D : 0				
	E : 6      G : 0      H : 4      I : 5				
	J : 6				

13	125mm Diameter hole	No	21		
	A : 0      B : 0      C : 0      D : 0				
	E : 6      G : 0      H : 4      I : 5				
	J : 6				

**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

**Rough formwork to soffits**

14	Soffits of slabs propped up exceeding 1.5m and not exceeding 3m high	m2	79		
	A : 0      B : 0      C : 0      D : 0				
	E : 23      G : 0      H : 15      I : 19				
	J : 23				

**MOVEMENT JOINTS ETC**

**Expansion joints with 10mm bitumen impregnated softboard between vertical concrete and brick surfaces**

15	Joint not exceeding 300mm high	m	393		
	A : 180      B : 90      C : 48      D : 48				
	E : 8      G : 0      H : 5      I : 6				
	J : 8				

**REINFORCEMENT (PROVISIONAL)**

**(WORK GROUP 114)**

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**Fabric reinforcement**

16	Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc A : 431      B : 210      C : 153      D : 289 E : 30      G : 0      H : 20      I : 25 J : 30	m2	1 188		
17	Type Ref 395 fabric reinforcement in concrete surface beds, slabs, etc A : 0      B : 0      C : 0      D : 0 E : 9      G : 0      H : 6      I : 8 J : 9	m2	32		
18	Type Ref 617 fabric reinforcement in concrete surface beds, slabs, etc A : 0      B : 0      C : 0      D : 0 E : 45      G : 0      H : 30      I : 38 J : 45	m2	158		

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Bill No 3 - Concrete, formwork and reinforcement

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Bill No 3 - Concrete, formwork and reinforcement

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Amount

All mortar strength test cubes shall be labelled and the identity thereof (ie. date, mortar strength type, position where batch was taken from relative to the building and building identity) shall be properly recorded for future reference

#### **Sizes in descriptions**

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

#### **Brickwork**

Bricks shall be laid on a solid bed of mortar and all joints shall be grouted up solid

The brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

#### **Face bricks**

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

#### **Pointing**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

#### **Samples**

Samples of all masonry building units, except for walls described as "load bearing" shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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**Key:**

**Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

**FOUNDATIONS BRICKWORK**

**M200 Blockwork of concrete blockbrick (7 MPa nominal compressive strength) in class II mortar**

1	<b><u>200mm Thick blockwall in pit lining</u></b>	m2	189
	A : 0      B : 0      C : 0      D : 0		
	E : 54      G : 0      H : 36      I : 45		
	J : 54		

**Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar**

2	One brick walls	m2	248
	A : 150      B : 78      C : 0      D : 0		
	E : 6      G : 0      H : 4      I : 5		
	J : 6		

**SUPERSTRUCTURE BRICKWORK**

**Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar**

3	Half brick walls	m2	42
	A : 0      B : 0      C : 0      D : 0		
	E : 12      G : 0      H : 8      I : 10		
	J : 12		
4	Half brick walls in beamfilling	m2	139
	A : 49      B : 24      C : 16      D : 40		
	E : 3      G : 0      H : 2      I : 3		
	J : 3		

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5	One brick walls A : 322      B : 207      C : 24      D : 24 E : 71      G : 0      H : 47      I : 59 J : 71	m2	823
6	One brick wall in fire wall A : 58      B : 32      C : 7      D : 7 E : 0      G : 0      H : 0      I : 0 J : 0	m2	104
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brick reinforcement in substructure (Provisional)</u></b>			
7	Brick reinforcement 150mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net) A : 583      B : 302      C : 0      D : 0 E : 300      G : 0      H : 200      I : 250 J : 300	m	1 935
<b><u>Brick reinforcement in superstructure</u></b>			
8	Brick reinforcement 75mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net) A : 184      B : 90      C : 0      D : 0 E : 420      G : 0      H : 280      I : 350 J : 420	m	1 744
9	Brick reinforcement 150mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net) A : 1608      B : 808      C : 0      D : 0 E : 1974      G : 0      H : 1316      I : 1645 J : 1974	m	9 325

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<b><u>Prestressed fabricated lintels</u></b>					
10	100mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar A : 49      B : 24      C : 0      D : 0 E : 17      G : 0      H : 11      I : 14 J : 17	m	131		
<b><u>Turning pieces</u></b>					
11	230mm Wide turning pieces to lintels etc A : 49      B : 24      C : 0      D : 0 E : 9      G : 0      H : 6      I : 8 J : 9	m	104		
<b><u>Air bricks etc</u></b>					
12	229 x 152mm Clay vermin proof air bricks built into brick walls A : 28      B : 16      C : 0      D : 0 E : 6      G : 0      H : 4      I : 5 J : 6	No	65		
<b><u>Galvanised brickwork reinforcement</u></b>					
13	Brick reinforcement 150mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net) A : 0      B : 0      C : 93      D : 93 E : 0      G : 0      H : 0      I : 0 J : 0	m	186		
<b><u>Galvanised wire ties etc</u></b>					
14	30 x 1,6mm Galvanised hoop iron roof tie 1600mm girth with one end fixed to timber and other end fixed to brickwork A : 94      B : 46      C : 50      D : 50 E : 21      G : 0      H : 14      I : 18 J : 21	No	314		
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	<b><u>Air bricks etc</u></b>				
15	229 x 152mm Clay vermin proof air bricks built into brick walls A : 0      B : 0      C : 8      D : 8 E : 6      G : 0      H : 4      I : 5 J : 6	No	37		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Face bricks to be "Corobrik Imperial FBX" in stretcher bond and in multi colours to match existing, pointed with recessed horizontal and vertical joints</u></b>				
16	Extra over brickwork for face brickwork in foundations (Provisional) A : 80      B : 32      C : 0      D : 0 E : 3      G : 0      H : 2      I : 3 J : 3	m2	123		
17	Extra over brickwork for face brickwork A : 703      B : 402      C : 0      D : 0 E : 13      G : 0      H : 52      I : 65 J : 13	m2	1 249		
18	Extra over brickwork for brick-on-edge header course lintel pointed on face and 115mm soffit A : 49      B : 24      C : 0      D : 0 E : 6      G : 0      H : 4      I : 5 J : 6	m	94		
	<b><u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u></b>				
19	175mm Wide sill set sloping and slightly projecting A : 49      B : 24      C : 0      D : 0 E : 5      G : 0      H : 3      I : 4 J : 5	m	89		
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20	Fair raking cutting	m	97
	A : 17      B : 17      C : 0      D : 0		
	E : 18      G : 0      H : 12      I : 15		
	J : 18		
	<b><u>FIBRE-CEMENT WINDOW SILLS</u></b>		
	<b><u>Fibre cement FC77 or equal and approved natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></b>		
21	15 x 150mm Wide cills set flat and slightly projecting	m	89
	A : 49      B : 24      C : 0      D : 0		
	E : 5      G : 0      H : 3      I : 4		
	J : 5		
	<b><u>PRECAST CONCRETE</u></b>		
	<b><u>Precast concrete covers</u></b>		
22	800 x 800mm precast concrete cover laid loose on brickwork	No	21
	A : 0      B : 0      C : 0      D : 0		
	E : 6      G : 0      H : 4      I : 5		
	J : 6		
23	1700 x 00mm precast concrete cover laid loose on brickwork	No	4
	A : 0      B : 0      C : 0      D : 0		
	E : 1      G : 0      H : 1      I : 1		
	J : 1		

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## WATERPROOFING

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**One layer of type 375 micron Consol Plastics  
Brikrip DPC or equal and approved embossed  
damp proof course**

1	In walls	m2	930		
	A : 896      B : 23      C : 0      D : 0				
	E : 3      G : 0      H : 2      I : 3				
	J : 3				

**One layer of 250 micron USB green medium density  
waterproof sheeting sealed at laps with pressure  
sensitive tape all in accordance with the  
Manufacturer's instruction**

2	Medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing in building	m2	624		
	A : 0      B : 210      C : 113      D : 249				
	E : 15      G : 0      H : 10      I : 13				
	J : 15				

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**Key:**

**Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
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[I]	4T1D Ablution Block
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**PROFILED METAL SHEETING AND ACCESSORIES**

**Compliance documentation, etc.**

- 1 Allow for the issuing of all relevant roof sheeting installation compliance certificates as per manufacturers specification and installation procedures.

Item

**0,8mm Thick "Zinc Aluminium" or similar Approved corrugated pressed steel sheets with "Chromadek" finish on one side and pre-painted finish on other side, fixed to timber or steel purlins**

- 2 Roof covering with pitches not exceedin 25 degrees

m2

1 389

A : 560      B : 272      C : 150      D : 249  
E : 45      G : 0      H : 30      I : 38  
J : 45

- 3 Ridge capping 520mm girth, notched to fit ribs of roof covering and with profiled "Sondor" polyclosers on both sides

m

152

A : 47      B : 23      C : 25      D : 25  
E : 9      G : 0      H : 6      I : 8  
J : 9

- 4 Stepped cover flashing 460 girth

m

11

A : 0      B : 0      C : 11      D : 0  
E : 0      G : 0      H : 0      I : 0  
J : 0

**ROOF AND WALL INSULATION**

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Bill No 6 - Roof Covering

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**Sisalation GR420 heavy industrial grade aluminium foil based insulation**

5	Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with tiling battens, purlins, etc.	m2	1 286		
	A : 560      B : 169      C : 150      D : 249				
	E : 45        G : 0        H : 30      I : 38				
	J : 45				

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### **Hardwoods**

All hardwoods shall be specially selected, well seasoned, free from sapwood and kiln dried. Meranti shall be Red or Medium Brown Meranti, even in grain and colour, selected from "Standard and Better" quality from Malaysia

### **Sealing of all abutments**

All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints

Tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained

### **Key:**

### **Location Description:**

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[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

### **ROOFS, ETC**

#### **Plate nailed timber roof truss construction**

(a)Roof truss spacing must not exceed 1250 mm centres and must be constructed with pitch not less than 15°

(b)Roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take rib iron roof covering purlins and fibre cement or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's

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instructions

(c) Unless otherwise described all rafter feet are to extend 1800 mm beyond the length of the tie beam, with ends twice splay cut.

(d) The tenderer's attention is drawn to the fact that the detail drawings included at the back of these Bills of Quantities are the required design of the roof structure. It will still be the contractors duty to see that the overall size and bearing points of the trusses meet with the architectural drawings and the completed wall structure. The manufacture and transportation of the roof trusses bracing etc. shall be in accordance with SABS 0243 and under control of a registered engineer. It shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been constructed according to the plans and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent/Engineer

(e) If the contractor's supplier decided on an alternative design, the design manufacture and transportation of the roof trusses, bracing, etc. shall be in accordance with SABS 0243 and under the control of a registered Engineer. It shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/ Agent/Engineer. The manufacturers must supply a complete set of all drawings with the necessary structural and erection details on the drawings and must submit it to the representative/Agent/Engineer before the Contractor start with any work related to the roofstructure. After approval of the drawings by the Representative/Agent/Engineer, the Contractor may order the material and continue with the work on the roof structure. An approved set of A1 drawings on drawing film must be handed to the Representative/Agent/Engineer to be included in his set of "as build" drawings after completion of the contract.

(f) Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR. Apply the

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alternative fastening methods in the above mentioned documents as follows: Use galvanized wire, bound twice at each connection to tie the purlins where the roof is covered with ceiling board. Use Hurricane clips at each connection where the roof is in the open.

(g)Description of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc, and for any temporary bracing.

Rates for complete roof truss construction shall include bracings, purlins, splay cut ends, mitres, jointing, wrought and shaped ends, connections, bolts, cleats, gussets and timber connectors, hip- or valley sets and fixing in position.

**PREFABRICATED ROOF TRUSSES, ETC.**

1	Allow for the issuing of all relevant roof truss design certificates as per SANS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES.		Item	
	<b><u>Prefabricated timber trusses with not exceeding 15 degree pitch.</u></b>			
2	Roof truss 9740 x 1900mm high of prefabricated trusses to: New 3 Classroom Block	No	23	
	A : 0      B : 23      C : 0      D : 0			
	E : 0      G : 0      H : 0      I : 0			
	J : 0			
3	Roof truss 9590 x 1850mm high of prefabricated trusses to: 3 x Classrooms	No	25	
	A : 0      B : 0      C : 0      D : 25			
	E : 0      G : 0      H : 0      I : 0			
	J : 0			
4	Roof truss 9060 x 1860mm high of prefabricated trusses to: 6 x Classrooms	No	47	
	A : 47      B : 0      C : 0      D : 0			
	E : 0      G : 0      H : 0      I : 0			
	J : 0			

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5	Roof truss 8050 x 1750mm high of prefabricated trusses to: Administration A : 0      B : 0      C : 25      D : 0 E : 0      G : 0      H : 0      I : 0 J : 0	No	25		
6	Roof truss 5840 x 1410mm high of prefabricated trusses to: New 6B Ablution Block A : 0      B : 0      C : 0      D : 0 E : 10      G : 0      H : 0      I : 0 J : 0	No	10		
7	Roof truss 5840 x 1410mm high of prefabricated trusses to: 6G Ablution Block A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 0 J : 10	No	10		
8	Roof truss 5000 x 885mm high of prefabricated trusses to: New 2F2M1D Ablution Block A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 8 J : 0	No	8		
9	Roof truss 3820 x 690mm high of prefabricated trusses to: 3R1T Ablution Block A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 8      I : 0 J : 0	No	8		
<b><u>Sawn softwood</u></b>					
10	22 x 228mm Gang boarding (Provisional). A : 48      B : 24      C : 24      D : 24 E : 9      G : 0      H : 6      I : 8 J : 9	m	152		
11	38 x 114mm Longitudinal bracing (Provisional). A : 48      B : 24      C : 24      D : 24 E : 0      G : 0      H : 0      I : 0 J : 0	m	120		
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12	50 x 76mm Cross bracing (Provisional).	m	262
	A : 88      B : 44      C : 44      D : 44		
	E : 12      G : 0      H : 8      I : 10		
	J : 12		
13	38 x 114mm Wall plates	m	296
	A : 92      B : 45      C : 48      D : 48		
	E : 18      G : 0      H : 12      I : 15		
	J : 18		
14	50 x 76mm Purlins	m	1 755
	A : 576      B : 288      C : 288      D : 288		
	E : 90      G : 0      H : 60      I : 75		
	J : 90		
	<b><u>Wrought softwood</u></b>		
15	50 x 76mm Purlins	m	303
	A : 96      B : 48      C : 48      D : 48		
	E : 18      G : 0      H : 12      I : 15		
	J : 18		
	<b><u>Sundries</u></b>		
16	Two coats ABE PROVONITE on exposed timbers	m2	183
	A : 48      B : 24      C : 24      D : 24		
	E : 18      G : 0      H : 12      I : 15		
	J : 18		
17	Teco Hurricane galvanised mild steel purlin to rafter ties fixed in strict accordance with the manufacturers instructions	No	606
	A : 192      B : 96      C : 96      D : 96		
	E : 36      G : 0      H : 24      I : 30		
	J : 36		

**EAVES, VERGES, ETC**

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<b><u>Everite medium density plain nutec-cement</u></b>					
18	12 x 225mm Fascia with plastic H-profile joint strips, screwed to timber with 14 x 40mm brass screws A : 96      B : 48      C : 48      D : 48 E : 18      G : 0      H : 12      I : 15 J : 18	m	303		
19	12 x 225mm Barge boards with plastic H-profile joint strips, screwed to timber with 14 x 40mm brass screws A : 44      B : 22      C : 22      D : 22 E : 18      G : 0      H : 10      I : 13 J : 18	m	169		
<b><u>SKIRTINGS &amp; BUMPRAILS</u></b>					
<b><u>Wrought meranti</u></b>					
20	20 x 70mm Skirting nailed with 19mm quarter round A : 180      B : 87      C : 87      D : 87 E : 0      G : 0      H : 0      I : 0 J : 0	m	441		
<b><u>Laminated SA pine</u></b>					
21	50 x 150mm Dado rail with two rounded edges, plugged and screwed A : 180      B : 87      C : 87      D : 87 E : 0      G : 0      H : 0      I : 0 J : 0	m	441		
<b><u>DOORS, ETC</u></b>					
<b><u>Swartland Heavy duty solid flush doors with two concealed hardwood edge strips</u></b>					
22	40mm Thick hardboard heavy duty interior solid core flush door with two concealed edges, size 813 x 2032mm high A : 0      B : 0      C : 0      D : 0 E : 6      G : 0      H : 3      I : 4 J : 6	No	19		
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**Swartland Gold Wrought meranti doors hung to steel frames**

23	44mm Thick SD2 framed, ledged, braced and battened backply back door, size 864 x 2032mm high, sealed with a linseed oil based transit stabilizing sealer.	No	10		
	A : 0      B : 0      C : 3      D : 3				
	E : 1      G : 0      H : 1      I : 1				
	J : 1				
24	44mm Thick SD2 framed, ledged, braced and battened backply back door, size 813 x 2032mm high, sealed with a linseed oil based transit stabilizing sealer.	No	10		
	A : 6      B : 3      C : 0      D : 0				
	E : 0      G : 0      H : 1      I : 0				
	J : 0				

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

All finishes to be applied at the factory during the manufacturing process and to be delivered on site "pre-finished" as described. No applying of finishes on site will be allowed

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**Fixing of electrical light fittings, diffusers, panels, etc. to suspended ceilings**

Electrical light fittings, diffusers, panels, etc. generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognizance thereof)

**Key:**

**Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

**NAILED UP CEILINGS**

**9mm "Rhino board" plain ceiling boards with H-section metal cover strips over joints**

1	Horizontal ceilings, including 38 x 50mm sawn softwood brander at 450mm centres.	m2	768												
	<table> <tr> <td>A : 339</td><td>B : 169</td><td>C : 113</td><td>D : 147</td></tr> <tr> <td>E : 0</td><td>G : 0</td><td>H : 0</td><td>I : 0</td></tr> <tr> <td>J : 0</td><td></td><td></td><td></td></tr> </table>	A : 339	B : 169	C : 113	D : 147	E : 0	G : 0	H : 0	I : 0	J : 0					
A : 339	B : 169	C : 113	D : 147												
E : 0	G : 0	H : 0	I : 0												
J : 0															
2	Extra over ceiling for opening for 680 x 696 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	15												
	<table> <tr> <td>A : 6</td><td>B : 3</td><td>C : 3</td><td>D : 3</td></tr> <tr> <td>E : 0</td><td>G : 0</td><td>H : 0</td><td>I : 0</td></tr> <tr> <td>J : 0</td><td></td><td></td><td></td></tr> </table>	A : 6	B : 3	C : 3	D : 3	E : 0	G : 0	H : 0	I : 0	J : 0					
A : 6	B : 3	C : 3	D : 3												
E : 0	G : 0	H : 0	I : 0												
J : 0															

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Bill No 8 - Ceilings, Partitions and access flooring

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**4mm Fibre cement ceiling boards with H-section**

3	Horizontal ceilings, including 38 x 50mm sawn softwood brandering at 450mm centres	m2	86		
	A : 0      B : 0      C : 43      D : 43				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**Wrought meranti**

4	<b><u>32 x 69mm Rebated cornice nailed</u></b>	m	597		
	A : 180      B : 139      C : 139      D : 139				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**CEILING INSULATION**

**Approved 100mm thick flexible non-combustible  
mineral wool insulation**

5	100mm Insulation laid loose on ceiling with closely butted joints and ends	m2	768		
	A : 339      B : 169      C : 113      D : 147				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**



**300 x 300 x 2mm Fully-flexible "Floorworx Superflex" vinyl tile.**

1	On screeded floors	m2	768		
	A : 339      B : 169      C : 113      D : 147				
	E : 0          G : 0          H : 0          I : 0				
	J : 0				

**Sundries**

**POLISH, SEALERS, ETC**

2	Two coats approved terpolymer floor sealer on vinyl flooring	m2	768		
	A : 339      B : 169      C : 113      D : 147				
	E : 0          G : 0          H : 0          I : 0				
	J : 0				

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Bill No. 9

Bill No 9 - Floor Coverings, Wall Lining, etc.

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Bill No. 9

Bill No 9 - Floor Coverings, Wall Linning, etc.

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Bill No. 9

Bill No 9 - Floor Coverings, Wall Linning, etc.

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<b><u>"Approved "</u></b>					
1	100mm Mild steel butt hinge A : 0      B : 0      C : 3      D : 3 E : 0      G : 0      H : 0      I : 0 J : 0	No	6		
<b><u>"Union" or similar approved by the Architect</u></b>					
2	AL8098 Surface mounted single or multitrack indicator bolt with anodised silver finish A : 0      B : 0      C : 0      D : 0 E : 6      G : 0      H : 3      I : 4 J : 6	No	19		
3	37651AS Helping hand indicator bolt A : 0      B : 0      C : 0      D : 0 E : 1      G : 0      H : 1      I : 1 J : 1	No	4		
<b><u>LOCKS</u></b>					
<b><u>"Union" or similar approved by the Architect</u></b>					
4	Solid Art 390/313 four lever mortice lockset with satin chrome plated handles A : 6      B : 3      C : 3      D : 3 E : 1      G : 0      H : 1      I : 1 J : 1	No	19		
5	Master key A : 0      B : 0      C : 0      D : 0 E : 1      G : 3      H : 1      I : 1 J : 1	No	7		
<b><u>PULL HANDLES</u></b>					
<b><u>Chairman Industries</u></b>					
6	'Ref DL3' angled grab rail fitted to brickwork A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 1      I : 1 J : 0	No	2		
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7	'Ref SR2' Stainless steel wall mounted rear grab rail around cistern  A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 1      I : 1 J : 0  <b><u>LETTERS, NAMEPLATES, ETC (PROVISIONAL)</u></b> <b><u>5mm Clear perspex signs (Provisional)</u></b>	No	2		
8	30mm High with one to three 25mm high letters or numerals engraved to back, fixed to steel door frame with two thief-proof screws.  A : 6      B : 3      C : 6      D : 6 E : 0      G : 0      H : 0      I : 0 J : 0  <b><u>"Solid" or similar approved by the Architect</u></b>	No	21		
9	Art 733/66/E/IF5/C91 indicator plate with fire extinguisher symbol  A : 6      B : 3      C : 3      D : 3 E : 0      G : 0      H : 0      I : 0 J : 0  <b><u>"Union" or similar approved by the Architect</u></b>	No	15		
10	AL5066E-00/2ASE10 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Male Pictogram E10  A : 0      B : 0      C : 0      D : 0 E : 1      G : 0      H : 0      I : 0 J : 0	No	1		
11	AL5066E-00/2ASE11 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Female Pictogram E11  A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 1 J : 1	No	2		
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12	AL5066E-00/2ASE14 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Paraplegic Pictogram E14 A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 1      I : 1 J : 0	No	2		
13	AL5066E-00/2ASE14 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Female E14 A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 1 J : 1	No	2		
14	AL5066E-00/2ASE14 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Male E14 A : 0      B : 0      C : 0      D : 0 E : 1      G : 0      H : 0      I : 1 J : 0	No	2		
15	AL5066E-00/2ASE14 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Grade R Ablution E14 A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 1 J : 0	No	1		
16	AL5066E-00/2ASE14 Aluminium, anodised silver engraved sign size, 152 x 152 x 2mm engraved with Paraplegic Ablutions E14 A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 0      I : 1 J : 0	No	1		
<b><u>BATHROOM FITTINGS, ETC</u></b>					
<b><u>"Franke" or similar approved by the Architect</u></b>					
17	Surface mounted toilet roll holder (code: STRX 671) with satin finish and cylinder lock A : 0      B : 0      C : 0      D : 0 E : 6      G : 0      H : 4      I : 5 J : 6	No	21		
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**SUNDRIES**

**"Union"or similar approved by the Architect**

18	AL8730AS Aluminium door stop	No	33		
	A : 6      B : 3      C : 3      D : 3				
	E : 3      G : 0      H : 4      I : 5				
	J : 6				

19	AL8253AS Hat, coat and robe hook	No	14		
	A : 0      B : 0      C : 0      D : 0				
	E : 3      G : 0      H : 1      I : 4				
	J : 6				

**"Halcast" or similar approved by the Architect**

20	166-CP Halstead chrome plated 200mm cabin hook	No	15		
	A : 6      B : 3      C : 3      D : 3				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**"Cecil Nurse"or similar approved by the Architect**

21	Mild steel key box for 100 keys, with epoxy powder coating	No	1		
	A : 0      B : 0      C : 1      D : 0				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**Buchels medicine safes (supplier : Buildware tel. 031 332 5764)**

22	No. 45 Code 00730800 wall unit 380 x 360 x 610mm high	No	1		
	A : 0      B : 0      C : 1      D : 0				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC**

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**"Vitrex" Series 2109 or similar approved by the  
Architect Wall mounted pinning board**

23	Code 2109 pinning board 4800 x 1200mm high	No	12
	A : 6      B : 3      C : 0      D : 3		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

24	Code 2109 pinning board 1200 x 1200mm high	No	2
	A : 0      B : 0      C : 2      D : 0		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

**"Vitrex" Series 2109 or similar approved by the  
Architect Wall mounted green writing board 4800 x  
1200 high with chalk rail and two folding leaves**

25	Code 2109 writing board 4800 x 1200mm high with chalk rail plugged.	No	12
	A : 6      B : 3      C : 0      D : 3		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

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### **Welded joints and intersections**

Prices of continuous rails shall include for welded joints in the length and prices of intersections shall include all cutting, mitring, scribing, shaping, etc

Bends, knees, ramps and the like to continuous rails shall be forged and rounded to approved radii

Prices for balustrades, burglar guards and the like shall include for framed and welded joints at intersections

### **Screws and bolts**

Screws and bolts shall be of corresponding metal and colour and heads of screws shall be countersunk. Self-tapping screws shall, unless described otherwise, be used for screwing items to adjoining metalwork. Stainless steel screws shall be used for fixing aluminium

Items fixed to adjoining metalwork with rivets, self-tapping screws, machine screws, etc shall include all necessary drillings

Where bolting is specified, projecting shank ends of bolts shall be cut off flush and left smooth

### **Door frames**

Unless otherwise described, the following shall be applicable on all door frames:

- Frames shall be double rebated suitable for 40mm thick doors
- One jamb of all frames for single doors shall be factory prepared for striking plate of mortice lock
- All frames shall be factory fitted with three washered butt hinges for each door
- All frames shall be treated with one coat factory applied metal primer complying with SANS Specification 909

### **Striking plates for door frames**

Striking plates to be of chromium-plated type, unless otherwise described

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**Burglar bars to steel windows**

All opening sections shall be filled with type B20 burglar bars, unless otherwise described

**Furniture to steel windows**

All steel type windows shall be fitted with chromium-plated furniture

**Sealing of all abutments**

All windows, etc. abutting face brick walls, etc. to be sealed watertight with an approved silicon sealant along all joints and prices to allow therefore

<b><u>Key:</u></b>	<b><u>Location Description:</u></b>
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[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

**GALVANIZED PRESSED STEEL DOOR AND WINDOW FRAMES**

**1,6mm Double rebated frames suitable for half brick walls**

1	Frame for door 813 x 2032mm high	No	13.00	
	A : 0.00    B : 0.00    C : 0.00    D : 0.00			
	E : 3.00    G : 0.00    H : 1.00    I : 3.00			
	J : 6.00			
2	Frame for door 864 x 2032mm high	No	9.00	
	A : 0.00    B : 0.00    C : 3.00    D : 3.00			
	E : 1.00    G : 0.00    H : 0.00    I : 1.00			
	J : 1.00			

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**1,6mm Double rebated frames suitable for one brick walls**

3	Frame for door 813 x 2032mm high	No	4.00
	A : 0.00      B : 0.00      C : 0.00      D : 0.00		
	E : 1.00      G : 0.00      H : 1.00      I : 1.00		
	J : 1.00		

4	Frame for door 864 x 2032mm high	No	10.00
	A : 6.00      B : 3.00      C : 0.00      D : 0.00		
	E : 0.00      G : 0.00      H : 1.00      I : 0.00		
	J : 0.00		

**GALVANIZED STEEL POST, ETC**

5	Steel post size 100mm diameter fixed on the verandah roof trusses	m	42
	A : 32      B : 11      C : 0      D : 0		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

**Sundries**

6	10mm Expansion anchor with loose bolt	No	64
	A : 48      B : 16      C : 0      D : 0		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

**GALVANIZED STEEL WINDOWS, DOORS, ETC.**

**Standard residential window with flat bar buglar proofing to opening and fixed sections:**

7	Window type E2, 1022 x 654mm high	No	19.00
	A : 0.00      B : 0.00      C : 0.00      D : 0.00		
	E : 6.00      G : 0.00      H : 3.00      I : 4.00		
	J : 6.00		

8	Window type 14BH Over 9-F/LT Composite size, 889 x 1250mm high	No	45.00
	A : 30.00      B : 15.00      C : 0.00      D : 0.00		
	E : 0.00      G : 0.00      H : 0.00      I : 0.00		
	J : 0.00		

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9 Window type 14BH Over 4BH Composite size, 889 x 854mm high

A : 30.00    B : 12.00    C : 0.00    D : 0.00  
E : 0.00    G : 0.00    H : 0.00    I : 0.00  
J : 0.00

No 42.00

**GALVANIZED STEEL GATES, SCREENS, ETC**

**Welded gates**

10 Galvanised single mild steel gates size 900 x 2100mm high of 40 x 60 x 3mm hollow section frame and two 40 x 6mm flat section middle rails holed for five 19mm diameter solid metal rods to pass through and welded to gate frame with one upright double throw security mortice deadlock in steel plate housing with cover plate etc, gate fixed to 40 x 60 x 3mm hollow section frame fitted with three pin hinges, bottoms welded to frame and tops welded to gate, frame holed for and fitted with eight 90mm long rawl bolts.

A : 6    B : 1    C : 3    D : 3  
E : 1    G : 0    H : 1    I : 1  
J : 1

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### **Skirtings**

Skirtings shall not exceed 25mm thick and shall have a fair edge with arris or rounded external angle at top edge or V-joint to finish flush with plaster and coved or square junction with floor finish

### **Plaster**

All plaster, other than skim plaster, shall not be less than 10mm and not more than 20mm thick

### **General**

Rates for plastering described as being on walls shall include concrete columns, beams and lintels flush with the face of the wall

### **Textured finishes**

All textured finishes are to be applied to the satisfaction of the Principal Agent and executed by an approved firm of specialists, all strictly in accordance with the materials supplied and methods employed by the manufacturer

### **Preparatory work for textured finishes**

Textured finishes to be applied to surfaces as described. Rates tendered are to include for all necessary priming, preparatory work, etc

All surfaces are to be inspected and approved by the Principal Agent prior any work is commenced

### **Key:**

### **Location Description:**

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

### **SCREEDS**

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**Screeds on concrete in class 2, strength category C**

1	30mm Thick on floors in pit	m2	79		
	A : 0      B : 0      C : 0      D : 0				
	E : 23      G : 0      H : 15      I : 19				
	J : 23				
2	30mm Thick on floors and landings	m2	1 005		
	A : 338      B : 169      C : 249      D : 249				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**Untinted granolithic on concrete:**

3	30mm Thick on floors and landings	m2	205		
	A : 86      B : 42      C : 0      D : 0				
	E : 27      G : 0      H : 18      I : 5				
	J : 27				
4	Skirting 75mm high	m	34		
	A : 0      B : 0      C : 0      D : 0				
	E : 0      G : 0      H : 34      I : 0				
	J : 0				

**INTERNAL PLASTER**

**One coat (1:5) cement plaster on brickwork**

5	On walls in pit	m2	153		
	A : 0      B : 0      C : 0      D : 0				
	E : 54      G : 0      H : 36      I : 9				
	J : 54				
6	On walls	m2	434		
	A : 0      B : 0      C : 0      D : 0				
	E : 123      G : 0      H : 82      I : 106				
	J : 123				
7	On walls in patches	m2	60		
	A : 0      B : 0      C : 30      D : 30				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

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8	On narrow width A : 0      B : 0      C : 0      D : 0 E : 5      G : 0      H : 3      I : 4 J : 5  <b><u>EXTERNAL PLASTER</u></b> <b><u>One coat (1:5) cement plaster on brickwork</u></b>	m2	16
9	On walls in patches A : 0      B : 0      C : 10      D : 40 E : 0      G : 0      H : 0      I : 0 J : 0	m2	50
10	On narrow width A : 0      B : 0      C : 0      D : 0 E : 0      G : 13      H : 0      I : 0 J : 0  <b><u>EXTERNAL PLASTER</u></b> <b><u>Bituminous coating to walls</u></b>	m2	13
11	On walls plastered surfaces A : 0      B : 0      C : 0      D : 0 E : 40      G : 0      H : 35      I : 35 J : 40	m2	150
12	On walls unplastered surfaces A : 0      B : 0      C : 0      D : 0 E : 42      G : 0      H : 40      I : 41 J : 40  <b><u>DIVIDING STRIPS, COVER STRIPS ETC</u></b> <b><u>Brass</u></b>	m2	163
13	3 x 25mm Brass dividing strip with top flush with floor finish A : 6      B : 3      C : 3      D : 3 E : 0      G : 0      H : 0      I : 0 J : 0	m	15

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## PREAMBLES

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**General**

Tiles, mosaics, etc shall be even in shape and size, free from cracks, twists or blemishes and uniform in colour

Surfaces shall be clean and free from oil and thoroughly wetted directly before any tiling is commenced. All surfaces shall be prepared as per manufacturer's instructions to form a proper key

Where tiles are fixed to plaster or screeds with an adhesive, the adhesive shall be as recommended by the manufacturer of the tiles. Joints shall be straight, continuous and flush pointed with an approved grouting compound

**200 x 200 x 6.5mm Thick "Johnson Matisse" MA 6 CoolGrey glazed ceramic tiles pointed with anti-bacterial grout (plaster elsewhere) .**

1	On walls in isolated panels, splashbacks, etc	m2	1
	A : 0      B : 0      C : 1      D : 0		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

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### **Excavations**

Prices for all excavations must include for necessary staging and for the risk of collapse of excavation side and also keeping excavations free from water

### **Laying, backfilling, bedding, etc. of pipes**

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SANS 1200 L : Medium-pressure pipelines

LD : Sewers

LE : Stormwater drainage

Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200

DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200

LB : Bedding (Pipes).

Unless otherwise described bedding of rigid pipes shall be class B bedding

### **Compacting**

Filling for all types of pipes described as "under solid floors, etc." shall be done with approved backfilling and compacted to 93% Mod. AASHTO density, unless otherwise described

### **uPVC pipes and fittings**

Soil, waste and vent pipes and fittings shall be solvent weld jointed

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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### **Copper pipes**

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 wall half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bend 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

### **Wire gratings**

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

### **Stainless steel basins, sinks, wash troughs, urinals, etc**

Stainless steel used for the manufacturing of urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be type 304 (18/8)

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

### **Flush pans**

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

### **Sealing of abutments**

All sanitary fittings abutting walls, tiled surfaces, vanity slabs, work tops, etc. to be sealed watertight with an approved silicon sealant along all joints

Tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained

### **Waste unions**

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

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### Timber backing boards

Descriptions for fire extinguishers shall be deemed to include hardwood backboard with exposed edges chamfered and finished with three coats approved satin gloss polyurethane varnish

### Testing

Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the Principal Agent's instructions, including for re-testing after taking out and making good all defective work to his entire satisfaction

### Key:

### Location Description:

[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

### RAINWATER DISPOSAL

#### 0,6mm Seamless aluminium with ColourTech G4 marble white finish.

1	125 x 85mm Eaves gutters	m	301
	A : 94      B : 48      C : 48      D : 48		
	E : 18      G : 0      H : 12      I : 15		
	J : 18		
2	Extra over eaves gutter for outlet for 75 x 100mm rainwater pipe.	No	38
	A : 12      B : 6      C : 6      D : 6		
	E : 2      G : 0      H : 2      I : 2		
	J : 2		

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3	Extra for stopped end	No	32
	A : 4      B : 4      C : 4      D : 4		
	E : 4      G : 0      H : 4      I : 4		
	J : 4		
4	75 x 100mm Fluted rainwater pipes in continuous lengths	m	80
	A : 32      B : 8      C : 8      D : 8		
	E : 6      G : 0      H : 6      I : 6		
	J : 6		
5	Extra over rainwater pipe for bend	No	28
	A : 8      B : 4      C : 4      D : 4		
	E : 2      G : 0      H : 2      I : 2		
	J : 2		
6	Extra over rainwater pipe for shoe	No	28
	A : 8      B : 4      C : 4      D : 4		
	E : 2      G : 0      H : 2      I : 2		
	J : 2		
7	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection.	No	28
	A : 8      B : 4      C : 4      D : 4		
	E : 2      G : 0      H : 2      I : 2		
	J : 2		

### **RAINWATER STORAGE**

#### **"RotoTanks" or similar approved polyethylene storage tank**

8	5000 Litre storage tank on 2300 x 2300 x 500mm high above ground plinths of concrete and brick and including tap and spilling basin. Tank secured tight to plinth.	No	9
	A : 2      B : 1      C : 1      D : 1		
	E : 1      G : 0      H : 1      I : 1		
	J : 1		

### **SANITARY PLUMBING**

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**"Franke"**

Stainless steel for economy basins, domestic sinks, worktops and wash troughs shall be type 430 (17/0).

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8).

Stainless steel for laboratory sinks, photographic equipment, etc shall be type 316 (18/8).

**"Vaal"**

9	"Christy" plastic bowl urinal or other equally approved	No	6
	A : 0      B : 0      C : 0      D : 0		
	E : 3      G : 0      H : 1      I : 2		
	J : 0		

10	"Charlock" VIP 200 or other similar approved toilet pedestal with sit and cover	No	18
	A : 0      B : 0      C : 0      D : 0		
	E : 3      G : 0      H : 4      I : 5		
	J : 6		

11	"Christy" plastic wash hand basin or other similar approved	No	11
	A : 0      B : 0      C : 0      D : 0		
	E : 2      G : 0      H : 3      I : 2		
	J : 4		

**WASTE UNIONS ETC**

**"Cobra Watertech"**

**SANITARY FITTINGS**

12	40mm Basin waste union.	No	14
	A : 0      B : 0      C : 0      D : 0		
	E : 2      G : 0      H : 6      I : 2		
	J : 4		

**TRAPS, ETC**

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

<b><u>"Cobra Watertech" or other equal and approved</u></b>					
13	40mm 345 CP bottle trap A : 0      B : 0      C : 0      D : 0 E : 4      G : 0      H : 4      I : 4 J : 4	No	16		
<b><u>"Cobra" Watertech</u></b>					
14	15mm 232-10CP angle regulating valve A : 0      B : 0      C : 0      D : 0 E : 4      G : 0      H : 2      I : 2 J : 4	No	12		
15	15mm Chrome plated pillar tap A : 0      B : 0      C : 0      D : 0 E : 0      G : 0      H : 2      I : 2 J : 4	No	8		
16	15mm Chrome plated pillar tap with elbow action lever A : 0      B : 0      C : 0      D : 0 E : 1      G : 0      H : 0      I : 1 J : 1	No	3		
<b><u>WASTES AND VENTS</u></b>					
<b><u>uPVC soil and vent pipes</u></b>					
17	40mm Pipe fixed in walls, ceilings, roofs, floors, etc or laid in filling A : 0      B : 0      C : 0      D : 0 E : 30      G : 0      H : 20      I : 25 J : 30	m	105		
18	110mm Pipe fixed in walls, ceilings, roofs, floors, etc or laid in filling A : 0      B : 0      C : 0      D : 0 E : 18      G : 0      H : 12      I : 15 J : 18	m	63		
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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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**Tempest Fire CIMA**

32 4,5 kg Fire extinguisher size 181mm diameter x 416mm high (total mass 8kg) including backboard, plugged and screwed

A : 6      B : 3      C : 3      D : 3  
E : 0      G : 0      H : 0      I : 0  
J : 0

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Item No		Quantity	Rate	Amount
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	<b><u>BILL NO. 15</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>PREAMBLES</u></b>			
	For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
	<b><u>Key:</u></b>	<b><u>Location Description:</u></b>		
	[A]	New 6 Classrooms Block		
	[B]	New 3 Classroom Block		
	[C]	Admin Office		
	[D]	3 x Classroom		
	[E]	6B Ablution Block		
	[G]	All Locations		
	[H]	3R1T Ablution Block		
	[I]	4T1D Ablution Block		
	[J]	6G Ablution Block		
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
	<b><u>6.38mm "GSA SmartGlass Intruderprufe" clear laminated safety glass</u></b>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2 to frames	m2	234	
	A : 33      B : 167      C : 17      D : 17			
	E : 0      G : 0      H : 0      I : 0			
	J : 0			
	<b><u>6.38mm "GSA SmartGlass Intruderprufe" obscure laminated safety glass</u></b>			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2 to frames	m2	76	
	A : 18      B : 9      C : 17      D : 17			
	E : 4      G : 0      H : 3      I : 4			
	J : 4			
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<u>Key:</u>	<u>Location Description:</u>
[A]	New 6 Classrooms Block
[B]	New 3 Classroom Block
[C]	Admin Office
[D]	3 x Classroom
[E]	6B Ablution Block
[G]	All Locations
[H]	3R1T Ablution Block
[I]	4T1D Ablution Block
[J]	6G Ablution Block

## **PAINTWORK ETC TO PREVIOUSLY PAINTED WORK**

### **PREPARATORY WORK TO EXISTING SURFACES**

#### **Previously painted plastered surfaces**

All existing painted surfaces must be sanded and thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth

#### **Previously painted metal surfaces**

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

#### **Previously painted wood surfaces**

Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth

### **ON PLASTER ETC**

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Bill No 16 - Paintwork

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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**Wire brush, wash down with "Polycell Sugar Soap" or weak spirits of salts, rinse, repair plastered surface and apply one coat "Plascon Plaster Primer" and two coats "Plascon Micatex" (Provisional)**

1	On existing internal floated plaster walls	m2	459
	A : 0      B : 0      C : 222      D : 222		
	E : 0      G : 15      H : 0      I : 0		
	J : 0		

2	On existing external floated plaster walls	m2	327
	A : 0      B : 0      C : 170      D : 140		
	E : 0      G : 17      H : 0      I : 0		
	J : 0		

**ON METAL**

**Wire brush, wash down with "Polycell Sugar Soap" or weak spirits of salts, rinse, repair plastered surface and apply one coat "Plascon Plaster Primer" and two coats "Plascon Micatex" (Provisional)**

**Remove surface contaminants with "Polycell Sugar Soap" and apply one coat "Plascon Universal Undercoat" to bare and repaired areas, prime with one coat "Plascon Multisurface Primer" and finish with two coats "Plascon Enamel"**

3	On windows with burglar bars (both sides measured)	m2	108
	A : 0      B : 0      C : 54      D : 54		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

**PAINTWORK, ETC TO NEW WORK**

**ON FLOATED PLASTER SURFACES WITH**

**One coat "Plascon Plaster Primer" and two coats "Plascon Velvaglo Satin"**

4	On internal walls	m2	511
	A : 0      B : 0      C : 30      D : 30		
	E : 128      G : 5      H : 85      I : 106		
	J : 128		

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Bill No 16 - Paintwork

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

5	On external walls	m2	24
	A : 0      B : 0      C : 6      D : 5		
	E : 0      G : 13      H : 0      I : 0		
	J : 0		
	<b><u>ON METAL</u></b>		
	<b><u>Remove surface contaminants with "Polycell Sugar Soap" and apply one coat "Plascon Universal Undercoat" to bare and repaired areas, prime with one coat "Plascon Multisurface Primer" and finish with two coats "Plascon Velvaglo Satin"</u></b>		
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	24
	A : 0      B : 0      C : 12      D : 12		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		
	<b><u>One coat "Galvogrip metal primer", One Universal undercoat and Two coats "Plascon Enamel"</u></b>		
7	On door frames	m2	8
	A : 0      B : 0      C : 4      D : 4		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		
	<b><u>Remove surface contaminants with "Polycell Sugar Soap" and apply one coat "Plascon Universal Undercoat" to bare and repaired areas, prime with one coat "Plascon Multisurface Primer" and finish with two coats "Plascon Enamel"</u></b>		
8	On windows with burglar bars (both sides measured)	m2	32
	A : 0      B : 0      C : 0      D : 0		
	E : 9      G : 0      H : 6      I : 8		
	J : 9		

**ON FIBRE CEMENT, ETC**

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Bill No 16 - Paintwork

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**One coat "Plascon Plaster Primer" and two coats "Plascon Polvin Super Acrylic"**

9	On fascias and barge boards	m2	107		
	A : 32      B : 16      C : 16      D : 16				
	E : 8      G : 0      H : 5      I : 6				
	J : 8				

10	On ceilings	m2	294		
	A : 0      B : 0      C : 147      D : 147				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**PLASTER BOARD SURFACES WITH**

**One coat alkali resistant plaster primer and two coats Plascon Wall & All (WAA) on**

11	On ceilings and beams	m2	594		
	A : 339      B : 169      C : 43      D : 43				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

**WOOD SURFACES WITH**

**Three coats "Swartland Maxicare" timber sealant**

12	On doors	m2	113		
	A : 24      B : 12      C : 12      D : 12				
	E : 15      G : 0      H : 10      I : 13				
	J : 15				

13	On rails	m	435		
	A : 174      B : 87      C : 87      D : 87				
	E : 0      G : 0      H : 0      I : 0				
	J : 0				

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Bill No 16 - Paintwork

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Surface to be dry, sound and clean and apply one coat "Plascon Woodcare Pre-treatment" and two coats "Plascon Woodcare Interior Water Based Wood Varnish"

14	Skirtings, cornices, rails, etc not exceeding 300 mm girth	m	441
	A : 180      B : 87      C : 87      D : 87		
	E : 0      G : 0      H : 0      I : 0		
	J : 0		

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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Light fittings

Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described

Certificates of Compliance

Contractor to note that Certificates of Compliance must be issued for all separate buildings, reticulation, etc. as directed by and to the satisfaction of the Principal Agent

**DISTRIBUTION BOARDS, SLEEVES, ETC**

**Low tension distribution boards**

Flush mounted distribution boards as per drawings and specification complete with trays, doors, frames, sub-frames, busbars, circuit breakers, earth leakage units, isolators, contactors, provision for future circuit breakers, etc

1	60A 220V Distribution board (Three classrooms)	No	1
2	60A 220V Distribution board (Six classrooms)	No	1

**Sleeves**

uPVC sleeve piping including short lengths and jointing, laid in trenches under floors, chased in walls, built into walls, etc including excavation and backfilling

3	75mm Diameter pipe	m	6
4	75mm Bend	No	2

**GENERAL LIGHTING AND POWER**

**Conduit, etc**

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Section No. 3

Bill No. 1

Installations in New Buildings

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

	Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc			
5	20mm Diameter	m	1 190	
6	25mm Diameter	m	260	
	PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc			
7	Round conduit box for 20mm diameter conduit	No	120	
	Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc			
8	100 x 50 x 50mm Deep box	No	145	
9	100 x 100 x 50mm Deep box	No	35	
	<b>Conductors, etc</b>			
	PVC insulated stranded copper conductors drawn into wireways			
10	2.5mm <sup>2</sup>	m	2 380	
11	4mm <sup>2</sup>	m	420	
	Bare copper earth conductors drawn into wireways			
12	2.5mm <sup>2</sup>	m	1 190	
13	4mm <sup>2</sup>	m	260	
	<b>Draw wires</b>			
	Galvanised steel draw wires drawn into wireways			
14	1,6mm Diameter	m	360	
	<b>Socket outlets and light switches</b>			
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Section No. 3 Bill No. 1 Installations in New Buildings <b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b>				

	<u>Switched socket outlets, isolator outlets, etc complete with cover plates fixed to galvanised draw boxes (draw boxes elsewhere)</u>				
15	16A Flush mounted three pin double switched socket outlet	No	18		
16	20A Double pole bell isolator complete with weatherproof outlet box	No	1		
	<u>Light switches, etc complete with cover plate fixed in galvanised draw boxes (draw boxes elsewhere)</u>				
17	16A Flush mounted one lever one-way switch unit	No	12		
18	16A Flush mounted one lever two-way switch unit	No	2		
19	16A Photo cell mounted on external wall	No	1		
	<u>Switched socket outlets, etc complete with cover plates as required, fixed in power skirtings</u>				
20	16A Flush mounted three pin single dedicated switched socket outlet	No	24		
	<b><u>Luminaries, etc</u></b>				
	<u>Luminaries or equipment complete with lamps, control gear, connections, etc mounted in position</u>				
21	Type A1, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and electronic ballast	No	18		
22	Type A2, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 3 x 36W T8 lamps and electronic ballast	No	18		
23	Type AV, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and vapour proofed electronic ballast	No	12		
24	Type A, wall mounted waterproof (IP65) bulkhead light fitting with diecast aluminium body, high impact frosted polycarbonate diffuser and fitted with 2 x PL18W compact fluorescent lamps	No	6		
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<b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b>					

**EARTHING AND LIGHTNING PROTECTION**

Supply and install earthing and lightning protection for the following buildings as specified including testing, reports, etc

25	Three classrooms	No	1
26	Six classrooms	No	1

**TESTS, ETC**

Labelling and marking

27	Allow for labelling on the cover plates of all outlet points, distribution boards, etc	Item
----	--	------

Testing and commissioning

28	Testing and commissioning the electrical installation	Item
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Manuals, drawings, etc

29	Provision of as-built drawings, manuals, operative training, etc	Item
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Certificates of Compliance

30	Allow for the issue of all Certificates of Compliance as directed by the Principal Agent	Item
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Installations in New Buildings

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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Installations in New Buildings

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Installations in New Buildings

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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Certificates of Compliance

Contractor to note that Certificates of Compliance must be issued for all separate buildings, reticulation, etc. as directed by and to the satisfaction of the Principal Agent

**REMOVAL OF EXISTING**

Take down and remove existing electrical installation in the following buildings

1	3-Classroom block	No	1
2	Administration block	No	1

**DISTRIBUTION BOARDS, SLEEVES, ETC**

**Low tension distribution boards**

Flush mounted distribution boards as per drawings and specification complete with trays, doors, frames, sub-frames, busbars, circuit breakers, earth leakage units, isolators, contactors, provision for future circuit breakers, etc

3	60A 220V Distribution board (Three classrooms)	No	1
4	60A 220V Distribution board (Admin)	No	1

**Sleeves**

uPVC sleeve piping including short lengths and jointing, laid in trenches under floors, chased in walls, built into walls, etc including excavation and backfilling

5	75mm Diameter pipe	m	12
6	75mm Bend	No	4

**GENERAL LIGHTING AND POWER**

**Conduit, etc**

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Section No. 3

Bill No. 2

Installations in Existing Buildings

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

	<u>Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc</u>				
7	20mm Diameter	m	310		
8	25mm Diameter	m	90		
	<u>PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc</u>				
9	Round conduit box for 20mm diameter conduit	No	80		
	<u>Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc</u>				
10	100 x 50 x 50mm Deep box	No	4		
11	100 x 100 x 50mm Deep box	No	4		
	<b><u>Conductors, etc</u></b>				
	<u>PVC insulated stranded copper conductors drawn into wireways</u>				
12	2.5mm <sup>2</sup>	m	620		
13	4mm <sup>2</sup>	m	180		
	<u>Bare copper earth conductors drawn into wireways</u>				
14	2.5mm <sup>2</sup>	m	310		
15	4mm <sup>2</sup>	m	90		
	<b><u>Draw wires</u></b>				
	<u>Galvanised steel draw wires drawn into wireways</u>				
16	1,6mm Diameter	m	120		
	<b><u>Socket outlets and light switches</u></b>				
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	<u>Switched socket outlets, isolator outlets, etc complete with cover plates fixed to galvanised draw boxes (draw boxes elsewhere)</u>				
17	16A Flush mounted three pin double switched socket outlet	No	4		
18	30A Surface mounted double pole geyser isolator	No	1		
	<u>Light switches, etc complete with cover plate fixed in galvanised draw boxes (draw boxes elsewhere)</u>				
19	16A Flush mounted one lever one-way switch unit	No	2		
20	16A Flush mounted one lever two-way switch unit	No	1		
21	16A Photo cell mounted on external wall	No	1		
	<b><u>Power skirtings</u></b>				
	<u>Note:</u>				
	The rates for power skirtings shall include for splices, joining, drilling, etc				
	<u>"Cabstrut N8/P803" epoxy powder coated galvanised steel power skirtings complete with covers, surface mounted to brickwork or concrete</u>				
22	Three compartment power skirtings	m	12		
	<u>Extra over for accessories to power skirtings</u>				
23	Internal elbow	No	6		
24	Tee	No	4		
25	End cap	No	2		
	<u>Switched socket outlets, etc complete with cover plates as required, fixed in power skirtings</u>				
26	16A Flush mounted three pin single dedicated switched socket outlet	No	6		
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<b><u>Luminaries, etc</u></b>					
<u>Luminaries or equipment complete with lamps, control gear, connections, etc mounted in position</u>					
27	Type A1, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and electronic ballast	No	10		
28	Type A2, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 3 x 36W T8 lamps and electronic ballast	No	10		
29	Type AV, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and vapour proofed electronic ballast	No	6		
30	Type A, wall mounted waterproof (IP65) bulkhead light fitting with diecast aluminium body, high impact frosted polycarbonate diffuser and fitted with 2 x PL18W compact fluorescent lamps	No	4		
<b><u>EARTHING AND LIGHTNING PROTECTION</u></b>					
<u>Supply and install earthing and lightning protection for the following buildings as specified including testing, reports, etc</u>					
31	Three classrooms	No	1		
32	Admin block	No	1		
<b><u>TESTS, ETC</u></b>					
<u>Labelling and marking</u>					
33	Allow for labelling on the cover plates of all outlet points, distribution boards, etc			Item	
<u>Testing and commissioning</u>					
34	Testing and commissioning the electrical installation			Item	
<b>Carried to Collection</b>					
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**Kwazulu Natal Department of Education  
Asbestos Replacement  
Isithundu Primary School**

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Bill No. 2

Installations in Existing Buildings

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Bill No. 2

Installations in Existing Buildings

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**Filling (General)**

It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior to the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G6 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

**CBR and indicator tests**

Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed

The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source

Results of these tests are to be submitted to and approved by the Principal Agent prior to commencement of any placement thereof and/or filling done therewith

**Density tests**

It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:

- **Filling to form building platforms, etc:**  
1 Test per 200m<sup>2</sup> plan area per each 150mm thick layer

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Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior commencement of any subsequent fill layers and/or other work

**Keeping excavations free from water:**

No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill

Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained

**Carting away of excessive and/or unsuitable excavated material**

Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site

The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent

The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent

Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained

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**Relevant SANS 1200 Specifications**

The following relevant SANS 1200 Specifications shall be regarded applicable:

**- Earth mattresses, building platforms, etc:**

SANS 1200 AA	General (Small Works)
SANS 1200 C	Site clearance
SANS 1200 DE	Earthworks (Small works)
SANS 1200 ME	Sub-base
SANS 1200 MF	Base

All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to

**SANS 1200 Specification (General)**

The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project

All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section

The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times

**Measurement and payment**

Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill

**EARTHWORKS**

**GENERAL SITE CLEARANCE ETC**

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<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	208		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	210		
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>					
<u>Open face excavation over sloping site</u>					
3	Open face excavation to form platforms and embankments and stockpiling on site	m3	32		
<u>Extra over bulk excavation in earth for excavation in</u>					
4	Soft rock	m3	3		
5	Hard rock	m3	2		
<u>Extra over all excavations for carting away</u>					
6	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the contractor	m3	32		
<b><u>Keeping excavations free of water</u></b>					
7	Keeping excavations free of all water other than subterranean water			Item	
<b><u>FILLING</u></b>					
<b><u>Earth filling obtained from the excavations including haulage approximately 800m from perimeter of excavations (not compacted)</u></b>					
8	In prescribed stock piles on site	m3	32		
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## STORMWATER DRAINAGE

**Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days**

12	Extra over for T-intersection	No	4
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**uPVC Class 6 pipes as drain pipes with couplings**

## WATER RETICULATION

**Supply, Lay and bed uPVC pipe complete: (The rate shall exclude disinfection of pipes after completion of hydraulic pipe test)**

**Fittings and specials - uPVC bends(Extra-over rate to items 3.1.1 to 3.1.6)**

15	20mm bend	No	2
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16	20mm Tees	No	2	
17	20 x 15mm Reducer	No	2	
<b><u>TESTING</u></b>				
18	Supply all the necessary apparatus, water etc. for and test the soil drainage and water supply systems to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item	
<b><u>CONSTRUCTION OF WALKWAYS</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
19	Trenches	m3	75	
	<u>Extra over bulk excavation in earth for excavation in</u>			
20	Soft rock	m3	8	
21	Hard rock	m3	4	
<b><u>Extra over all excavations for carting away</u></b>				
22	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	57	
<b><u>Risk of collapse of excavations</u></b>				
23	Sides of trench and hole excavations not exceeding 1,5m deep	m2	125	
<b><u>Keep excavations free from water</u></b>				
24	Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING ETC</u></b>				
<b><u>G7 filling obtained from excavations compacted to 95% Mod AASHTO density</u></b>				
25	Under floors, steps, pavings, etc	m3	31	
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26	Backfilling to trenches, holes, etc	m3	28
	<u>Earth filling (G7 material) obtained and supplied by the contractor from commercial sources or borrow pits including haulage of 10km from perimeter of site , and compacted to 93% Modified AASHTO density</u>		
27	Under floors, steps, pavings, etc	m3	31
	<b><u>Compaction of surfaces</u></b>		
28	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	208
	<b><u>TESTS</u></b>		
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>		
29	"Modified AASHTO Density" test	No	6
	<b><u>SOIL POISONING</u></b>		
	<b><u>Soil insecticide</u></b>		
30	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	208
31	To bottoms and sides of trenches	m2	125
	<b><u>CONCRETE</u></b>		
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<b><u>25MPa/19mm Unreinforced concrete cast against excavated surfaces</u></b>		
32	Strip footings	m3	29
	<b><u>REINFORCED CONCRETE</u></b>		
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<b><u>25MPa/19mm concrete</u></b>					
33	100mm Surface beds on waterproofing	m3	21		
<b><u>TEST BLOCKS</u></b>					
34	Making and testing 150 x 150 x 150mm concrete strenght test cube (Provisional)	No	6		
<b><u>CONCRETE SUNDRIES</u></b>					
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>					
35	Aprons, slabs, etc to falls	m2	208		
<b><u>Fabric reinforcement</u></b>					
36	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	208		
<b><u>WATERPROOFING</u></b>					
<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>					
<b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>					
37	Under surface beds	m2	208		
<b><u>Brickwork of NFP bricks in class II mortar</u></b>					
38	One brick walls	m2	160		
<b><u>Brickwork reinforcement</u></b>					
39	150mm Wide reinforcement built in horizontally	m	416		
<b><u>"COROBRICK" firelight satin face bricks pointed with recessed horizontal and vertical joints</u></b>					
40	Extra over brickwork for face brickwork	m2	54		
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	<u>Brick-on-edge header course copings, sills, etc of "COROBRICK" firelight satin face bricks, pointed with recessed joints on all exposed faces</u>				
41	Coping on top of one brick wall	m	208		
	<b><u>COVERED WALKWAYS</u></b>				
	<b><u>GALVANISED STEEL MINOR WORK</u></b>				
	<b><u>METALWORK</u></b>				
	<u>Welded frames to concrete walkways</u>				
	<u>Fixing accessories to roof timbers etc</u>				
42	Hole through 3mm steel for bolt	No	288		
43	75 x 75 x 3mm Hollow section colomns	m	180		
44	75 x 75 x 3mm Hollow section U shaped frame mitred and welded 5 500mm girth with base plates 150 x 150 x 3mm thick on both ends with 10mm holes for bolts (elsewhere measured)	No	36		
45	25 x 25 x 3mm Angle purlin bolted to frame	m	72		
46	8mm Expansion bolt and nuts	No	288		
47	10mm Expansion anchor with loose bolt	No	144		
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<b><u>0,58mm Thick "Zinc Aluminium" or similar Approved corrugated pressed steel sheets with "Chromadek" finish on one side and pre-painted finish on other side, fixed to timber or steel purlins</u></b>				
48	Roof covering with pitch not exceeding 5 degrees	m2	416		
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## BILL NO.1

## PREAMBLES

For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"

## General

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

### Cash discount

No cash discount. All provisional sums are "NET"

### Fuel, power and water for commissioning plant

The cost of water, power and fuel for the commissioning of plant shall be borne by the Selected or Nominated Sub-contractor appointed for the relevant selected or nominated sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved

## Profit

Provisional sums are net and do not include builder's discount. The Contractor may allow next to "Profit" items for any profit he might consider necessary

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### Provisional Sums

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### **Attendance**

It will be expected from the Contractor to render all general attendance and, if specifically so described, special attendance services to each relevant Specialist, all in accordance with the Clauses set out in the "Preliminaries" section

The item "Attendance" which follows each of the provisional sums for nominated and/or selected sub-contractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the Nominated and/or Selected Sub-contractors, the following:

- 1 The services as set out in the clauses in the "Preliminaries" section
- 2 Making good in all trades and cleaning down and removal of rubbish on completion

The Contractor may allow next to "Attendance" items for the recovery of such costs he might consider necessary

Also refer to the Clauses in the "Preliminaries" section for the definitions and adjustment of "Attendance" and "Special Attendance" respectively

### **PROVISIONAL SUMS FOR SELECTED SUBCONTRACT WORKS**

These scheduled allowances are for work to be executed under separate selected and/or nominated sub-contracts by firms of Specialists to be nominated by the Employer

All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable

### **BUDGETARY ALLOWANCE**

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**COMMUNITY LIAISON OFFICER**

- 1 Provide the amount of R80 000.00 (Eighty Thousand Rands) nett for Community Liason Officer's Salary to be omitted in part or whole as instructed by Principal Agent (R10 000 per month)

Item

**DRINKING FOUNTAINS**

- 2 Allow the amount R45 000.00 (Forty Five Thousand Rands) for installations of Nine drinking fountains

Item

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