



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

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

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

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

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

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

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

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

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

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

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

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

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

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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

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time related:\_\_\_\_\_

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### **OBJECTIVE AND PREPARATION**

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

Clause 2.0

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## **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**"

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4	<p><b>A4.0 DESIGN RESPONSIBILITY</b></p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
5	<p><b>A5.0 EMPLOYER'S AGENTS</b></p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
6	<p><b>A6.0 SITE REPRESENTATIVE</b></p> <p>Clause 6.0</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
7	<p><b>A7.0 COMPLIANCE WITH REGULATIONS</b></p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the <b>bills of quantities / lump sum document</b> for the <b>contractor</b> to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
8	<p><b>A8.0 WORKS RISK</b></p> <p>Clause 8.0</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
9	<p><b>A9.0 INDEMNITIES</b></p> <p>Clause 9.0</p> <p>Fixed:_____Value related:_____Time related:_____</p>	Item	
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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

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

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- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

#### 10.7 High risk insurance

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

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time related:\_\_\_\_\_

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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

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

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

14.2 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

**14.3.1** 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**

**14.3.3** 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**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**14.8** Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not 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: \_\_\_\_\_

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**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**

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4

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

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**16 A16.0 ACCESS TO THE WORKS**

Clause 16.0

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

Item

**17 A17.0 CONTRACT INSTRUCTIONS**

Clause 17.0

Clause 17.1.11 is amended by deleting the words "and the appointment of **nominated and selected subcontractors**"

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

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

Clause 18.0

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

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19	<b>A19.0 ASSIGNMENT</b>		
	Clause 19.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
20	<b>A20.0 NOMINATED SUBCONTRACTORS</b>		
	Clause 20.0		
	Clause 20.1.3 is amended by replacing it with the following:		
	No clause		
	Note: See item B9.1 hereinafter for adjustment of attendance on <b>nominated subcontractors</b> executing work allowed for under provisional sums		
	Fixed: _____ Value related: _____ Time related: _____	Item	
21	<b>A21.0 SELECTED SUBCONTRACTORS</b>		
	Clause 21.0		
	Clause 21 is amended by replacing it with:		
	No clause		
	Fixed: _____ Value related: _____ Time related: _____	Item	
22	<b>A22.0 EMPLOYER'S DIRECT CONTRACTORS</b>		
	Clause 22.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
23	<b>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b>		
	Clause 23.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	<b><u>COMPLETION</u></b>		
24	<b>A24.0 PRACTICAL COMPLETION</b>		
	Clause 24.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	

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25	<b>A25.0 WORKS COMPLETION</b>  Clause 25.0  Fixed: _____ Value related: _____ Time related: _____	Item	
26	<b>A26.0 FINAL COMPLETION</b>  Clause 26.0  Clause 26.1.2 is amended by inserting "#" next to 26.1.2  Fixed: _____ Value related: _____ Time related: _____	Item	
27	<b>A27.0 LATENT DEFECTS LIABILITY PERIOD</b>  Clause 27.0  Fixed: _____ Value related: _____ Time related: _____	Item	
28	<b>A28.0 SECTIONAL COMPLETION</b>  Clause 28.0  Fixed: _____ Value related: _____ Time related: _____	Item	
29	<b>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</b>  Clause 29.0  Clause 29.2.5 is amended by replacing it with:  No clause  Fixed: _____ Value related: _____ Time related: _____	Item	
30	<b>A30.0 PENALTY FOR NON-COMPLETION</b>  Clause 30.0  Fixed: _____ Value related: _____ Time related: _____  <b><u>PAYMENT</u></b>	Item	
31	<b>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</b>  Clause 31.0		
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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**

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

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

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

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

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### 32 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

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

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### 33 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

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

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### 34 A34.0 FINAL ACCOUNT AND FINAL PAYMENT

Clause 34.0

Clause 34.1 is amended by removing "#" next to 34.1

Clause 34.2 is amended by inserting "#" next to 34.2

Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"

Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty-one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"

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35	<b>A35.0 PAYMENT TO OTHER PARTIES</b>		
	Clause 35.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	<b><u>CANCELLATION</u></b>		
36	<b>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</b>		
	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 <b>employer</b> , has engaged in <b>corrupt or fraudulent practices</b> in competing for or in executing the contract		
	Clause 36.3 is amended by removing the reference to "No clause" and replacing the words " <b>principal agent</b> " with " <b>employer</b> "		
	Clause 36.0 is amended by the addition of the following clause:		
	36.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b> ; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b> . The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever		
	Fixed: _____ Value related: _____ Time related: _____	Item	
37	<b>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</b>		
	Clause 37.0		
	Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"		
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Clause 37.0 is amended by the addition of the following clause:

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

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time related:\_\_\_\_\_

Item

### 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

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time related:\_\_\_\_\_

Item

### 39 A39.0 CANCELLATION - CESSATION OF THE WORKS

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence:

"within one hundred and twenty (120) **working days** of completion of such a report"

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time related:\_\_\_\_\_

Item

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**DISPUTE**

**40 A40.0 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

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

Item

**SUBSTITUTE PROVISIONS**

**41 A41.0 STATE CLAUSES**

Clause 41.0

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

Item

**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:\_\_\_\_\_

Item

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## **SECTION B: JBCC PRELIMINARIES**

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

#### **43 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**

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

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

Item

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

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

Item

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

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

Item

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

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

Item

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

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

Item

#### **49 B2.6 Tender submission**

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"

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

Item

### **B3.0 THE SITE**

#### **50 B3.1 Defined works area**

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

Item

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51	<b>B3.2 Geotechnical investigation</b>	Fixed: _____ Value related: _____ Time related: _____	Item
52	<b>B3.3 Inspection of the site</b>	Fixed: _____ Value related: _____ Time related: _____	Item
53	<b>B3.4 Existing premises occupied</b>	Fixed: _____ Value related: _____ Time related: _____	Item
54	<b>B3.5 Previous work - dimensional accuracy</b>	Fixed: _____ Value related: _____ Time related: _____	Item
55	<b>B3.6 Previous work - defects</b>	Fixed: _____ Value related: _____ Time related: _____	Item
56	<b>B3.7 Services - known</b>	Fixed: _____ Value related: _____ Time related: _____	Item
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
<b>Carried to Collection</b>			R
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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
<b><u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></b>			
66	<b>B5.1 Samples of materials</b>	Fixed: _____ Value related: _____ Time related: _____	Item
67	<b>B5.2 Workmanship samples</b>	Fixed: _____ Value related: _____ Time related: _____	Item
68	<b>B5.3 Shop drawings</b>	Fixed: _____ Value related: _____ Time related: _____	Item
69	<b>B5.4 Compliance with manufacturers' instructions</b>	Fixed: _____ Value related: _____ Time related: _____	Item
<b><u>B6.0 TEMPORARY WORKS AND PLANT</u></b>			
70	<b>B6.1 Deposits and fees</b>	Fixed: _____ Value related: _____ Time related: _____	Item
71	<b>B6.2 Enclosure of the works</b>	Fixed: _____ Value related: _____ Time related: _____	Item
<b>Carried to Collection</b>			R
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72	<b>B6.3 Advertising</b>	Fixed: _____ Value related: _____ Time related: _____	Item
73	<b>B6.4 Plant, equipment, sheds and offices</b>	Fixed: _____ Value related: _____ Time related: _____	Item
74	<b>B6.5 Main notice board</b>	Fixed: _____ Value related: _____ Time related: _____	Item
75	<b>B6.6 Subcontractors' notice board</b>	Fixed: _____ Value related: _____ Time related: _____	Item
<b><u>B7.0 TEMPORARY SERVICES</u></b>			
76	<b>B7.1 Location</b>	Fixed: _____ Value related: _____ Time related: _____	Item
77	<b>B7.2 Water</b>	Fixed: _____ Value related: _____ Time related: _____	Item
78	<b>B7.3 Electricity</b>	Fixed: _____ Value related: _____ Time related: _____	Item
79	<b>B7.4 Telecommunication facilities</b>	Fixed: _____ Value related: _____ Time related: _____	Item
80	<b>B7.5 Ablution facilities</b>	Fixed: _____ Value related: _____ Time related: _____	Item
<b><u>B8.0 PRIME COST AMOUNTS</u></b>			
81	<b>B8.1 Responsibility for prime cost amounts</b>	Fixed: _____ Value related: _____ Time related: _____	Item
<b>Carried to Collection</b>			R
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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: \_\_\_\_\_

Item

**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

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[illegible]



This **schedule** 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 **Preliminaries**

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

## 12.1 PRE-TENDER INFORMATION

### 12.1.1 Provisional bills of quantities

[2.2] The quantities are provisional  
YES/NO

### 12.1.2 Availability of construction documentation

[2.3] *Construction documentation is complete*  
YES/NO

### 12.1.3 Interests of agents

[2.4] Details:

### 12.1.4 Defined works area

[3.1] Details:

### 12.1.5 Geotechnical investigation

[3.2] Details:

### 12.1.6 Existing premises occupied

[3.4] Specific requirements:

### 12.1.7 Previous work - dimensional accuracy

[3.5] Details:

### 12.1.8 Previous work - defects

[3.6] Details:

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**12.1.9 Services - known**

[3.7] Details:

**12.1.10 Protection of trees**

[3.9] Specific requirements:

**12.1.11 Inspection of adjoining properties**

[3.11] Specific requirements:

**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:

Carried to Collection

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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

**12.2.3 Additional agreed preliminaries items**

Details:

Carried to Collection

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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: \_\_\_\_\_

Item

### 104 **C3.0 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

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

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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		
107	<p><b>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> must give the unit commander or other responsible officer notice before commencement of the <b>works</b>. Should the <b>contractor</b> fail to make such arrangements, admission to the <b>site</b> may be refused and any additional costs will be for the <b>contractor's</b> account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
108	<p><b>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> 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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<b>Carried to Collection</b>	R		
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109	<p><b>C8.0 SECURITY CHECK OF PERSONNEL</b></p> <p>The <b>principal agent</b> may require the <b>contractor</b> to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the <b>principal agent</b> requesting the removal of a person or persons from the <b>works</b> for security reasons, the <b>contractor</b> shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the <b>works</b> and the <b>site</b> and/or to any document or information relating to the <b>works</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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>		
Carried to Collection			R
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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: \_\_\_\_\_

Item

#### C10.4 ACCESS TO CONDOMS

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

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

Item

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## C10.5 MONITORING

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

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

Item

## 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). Edition 23 Code of Practice

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	<b>C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)</b>
-----	--

The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work

Fixed:\_\_\_\_\_Value related:\_\_\_\_\_Time  
related:\_\_\_\_\_

Item

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114	<p><b>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 7(1)(9))</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	
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. 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 8.5</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
<b>Carried to Collection</b>		R	
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118	<p><b>C11.6 RISK ASSESSMENT FOR CONSTRUCTION WORK (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	
119	<p><b>C11.7 SIGNIFICANT HAZARDOUS IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS (CR 9)</b></p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
120	<p><b>C11.8 ADDITIONAL FINANCIAL PROVISION (Construction Regulation 5(1)(g))</b></p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
121	<p><b>C11.9 FALL PROTECTION PLAN (Construction Regulation 10)</b></p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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122	<p><b>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 7.8(b))</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: _____ 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: _____ 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: _____ 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: _____ Time related: _____</p>	Item	
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126	<p><b>C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Abatement Regulation)</b></p> <p>The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for;  <b>NOTIFICATION OF ASBESTOS PROCESSING</b>  <b>PERSONAL PROTECTIVE EQUIPMENT</b>  <b>PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE</b>  <b>DEMOLITION WORK OF SHEETS</b>  <b>LABELLING AND INFORMATION</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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## **BILL NO. 1**

## FOUNDATIONS (PROVISIONAL)

NOTE :

Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 104 for CPAP formula purposes

## SUPPLEMENTARY PREAMBLES

### Nature of ground

The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"

### Carting away of excavated material

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

## EARTHWORKS

## EXCAVATION, FILLING, ETC

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

1	Reduced levels under floors	m <sup>3</sup>	17
2	Trenches	m <sup>3</sup>	32
3	Holes	m <sup>3</sup>	1
4	Trenches and holes for thickening under surface bed, etc	m <sup>3</sup>	0.1

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 1  
Earthworks (provisional)

R



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**SOIL POISONING**

**Soil insecticide**

14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m <sup>2</sup>	166
15	To bottoms and sides of trenches	m <sup>2</sup>	125

**CONCRETE**

**(CPAP FORMULA WORK GROUP NO. 110)**

**REINFORCED CONCRETE**

**25MPa/19mm concrete**

16	Strip footings	m <sup>3</sup>	8
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**MOVEMENT JOINTS. ETC**

**Expansion joints with softboard between vertical concrete surfaces**

17	12mm Joints not exceeding 300mm high	m	11
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**BRICKWORK**

**(CPAP FORMULA WORK GROUP NO. 116)**

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

18	One brick walls	m <sup>2</sup>	28
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**Brickwork reinforcement**

19	150mm Wide reinforcement built in horizontally	m	335
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**External face bricks (Prime Cost Amount R 4 500.00/1000) pointed with flush horizontal and vertical joints**

20	Extra over brickwork for face brickwork	m <sup>2</sup>	28
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**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 1  
Earthworks (provisional)

R

Brick-on-edge header course copings, sills, etc of external face bricks (Prime Cost Amount R 4 500.00/1000) pointed with recessed joints on all exposed faces

**REINFORCEMENT (PROVISIONAL)**

**(CPAP FORMULA WORK GROUP NO. 114)**

Mild steel reinforcement to structural concrete work

21

8mm Diameter bars

t

0.72

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 1  
Earthworks (provisional)

R

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

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

### **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**20MPa/19mm concrete**

### **REINFORCED CONCRETE**

1 Aprons

m<sup>3</sup>

**25MPa/19mm concrete**

2 Surface beds on waterproofing

m<sup>3</sup>

17

### **TEST BLOCKS**

3 Making and testing 150 x 150 x 150mm concrete strenght test cube (Provisional)

No

4

### **CONCRETE SUNDRIES**

**Finishing top surfaces of concrete smooth with a wood float**

4 Aprons, slabs, etc to falls

m<sup>2</sup>

166

### **MOVEMENT JOINTS ETC**

**Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces**

5 10mm Joints not exceeding 300mm high

m

11

### **REINFORCEMENT (PROVISIONAL)**

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 2  
Concrete, formwork and reinforcement

R

[illegible]

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**PAVING (Provisional)**

**60mm Standard grey interlocking paving blocks laid with butt joints (Prime Cost Amount R 1 500.00/1000) on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down, including preparation of ground or filling**

11 Paving in herringbone bond

m²

42

**Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing**

12 Garden kerb (SABS 927 fig 12) 50 x 100 x 200mm high unreinforced concrete, each joint including excavation, backfilling, etc

m

28

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 3  
Masonry

R

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Item No	Unit	Quantity	Rate	Amount R
<b><u>SECTION 2</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>ROOF COVERINGS ETC</u></b>				
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
<b><u>0,6mm "IBR" Z275 spelter galvanised troughed sheet steel with "global coat" finish on one side in single lengths fixed to timber purlins and 0,6mm galvanised sheet steel accessories with "global coat" finish on one side</u></b>				
1	m²	266		
<b><u>ROOF AND WALL INSULATION</u></b>				
<b><u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u></b>				
2	m²	186		
Carried Forward to Summary of Section No.				R
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT				
Bill No. 5				
Roof coverings, claddings, etc				



## **ROOFS. ETC**

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

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,10m centres

Roof covering is galvanised "IBR" roof sheeting with "Globalcoat" finish on one side on 50 x 75mm purlins at 1,1m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm branderling.

All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.

Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.

All joints to be close fitted butt joints.

**Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.**

**The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.**

**Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer items CLASS-2 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.**

### **Sawn softwood**

1	38 x 114mm Wall plates	m	37
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**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 6  
Carpentry and joinery

R



2	Design, manufacture and deliver on site, plate nailed roof truss construction to Grade R Block, size 11 103 x 9 348mm overall on plan consisting of eleven mono pitched trusses, each truss 9 700 x 900mm high overall with 500mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1		
	<b><u>Sundries</u></b>				
3	Two coats creosote on sawn timbers	m²	15		
	<b><u>EAVES . VERGES . ETC</u></b>				
	<b><u>"Everite" pressed nutec-cement</u></b>				
4	12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39		
	<b><u>SKIRTINGS</u></b>				
	<b><u>Wrought meranti</u></b>				
5	19 x 76mm Skirting including 19mm quadrant bead nailed	m	46		
	<b><u>DOORS ETC</u></b>				
	<b><u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u></b>				
6	44mm "TDM" Framed and ledged door 813 x 2 032mm high	No	1		
	<b><u>Semi-solid flush doors with sapele veneer on both sides hung to steel frames</u></b>				
7	44mm Door 813 x 2 032mm high	No	1		
<b>Carried to Collection</b>				R	
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT					
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Carpentry and joinery					

## **JOINERY FITTINGS**

### **General**

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc (refer Architect's drawings as attached to the back of these Bills of Quantities)

### **Fittings to Grade R Classroom**

8	Shelving 350mm wide made up of 25mm thick hardwood top and 250 x 250mm high triangular mild steel brackets bolted to wall complete with paint and varnish as per architects specifications	m	5
9	Worktop open under 900mm high as per architect's specifications	m	3
10	Magazine rack display 1 105mm high as per architect's specifications	m	4
11	Book shelving 350mm wide made up of 25mm thick hardwood top and 250 x 250mm high triangular mild steel brackets bolted to wall complete with paint and varnish at 1 105mm high as per architects specifications	m	3

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 6  
Carpentry and joinery

R

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**LETTERS. NAMEPLATES. ETC**

- 3 60 x 3mm Thick perspex plate with two 40mm high engraved accordingly and painted

No 2

**"Union"**

- 4 "AL5022-E06" 150 x 150mm anodised aluminium plate with fire extinguisher symbol

No 1

**SUNDRIES**

**"Union"**

- 5 "AL8730AS" door stop plugged

No 2

- 6 "AL8722AS" rubber tipped hat and coat hook

No 2

**STEEL LOCKERS**

**"Greenfield Baseline Guardsman" Steel lockers with standard baked enamel finish**

- 7 "GB002" locker 300 x 450 x 1 800mm high

No 1

**WRITING BOARDS. PINNING BOARD. ETC**

**"Vitrex" vitreous enamelled writing boards, etc to SABS CSK-36-1980**

- 8 Green writing board 4 800 x 1 140mm high consisting of two fixed panels each 2 400 x 1 140mm high complete with aluminium chalk rail, etc, plugged

No 1

**"Parrot products"**

- 9 "BD0476" 2 400 x 1 200mm Aluminium framed carpet bulletin board

No 2

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 9  
Ironmongery

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Section No. 2

Bill No. 9

Ironmongery

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Bill No. 9  
Ironmongery

R



1 Single gate and frame for opening 813 x 2 032mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including three lever lock

**Amount  
R**

1

R

**PRESSED STEEL DOOR FRAMES**

**1,2mm Double rebated frames suitable for half brick walls**

2 Frame for door 813 x 2 032mm high

No

1

**1,2mm Double rebated frames suitable for one brick walls**

3 Frame for door 813 x 2 032mm high

No

1

**STEEL WINDOWS. DOORS. ETC**

**Standard industrial windows with type "B1" burglar bars to opening sashes**

4 Window, 1 000 x 1 000mm high

No

2

5 Window type E4, 1 511 x 654mm high

No

6

6 Window type SS52, 1 616 x 987mm high

No

5

**Play Ground Equipment**

7 Provide the amount of R 140 000 (One Hundred and Forty Thousands Rands) for play ground equipment and installation complete.

Item

140 000.00

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SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 10  
Metalwork

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Section No. 2

Bill No. 10

Metalwork

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Bill No. 10  
Metalwork

R



Item No		Unit	Quantity	Rate	Amount R
	<b><u>SECTION 2</u></b>				
	<b><u>BILL NO. 12</u></b>				
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>uPVC pipes and fittings:</u></b>				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed				
	<b><u>uPVC pressure pipes and fittings:</u></b>				
	Pipes for water supply shall be of the class stated				
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
	Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
	<b><u>Copper pipes:</u></b>				
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground				
	<b>Carried to Collection</b>				R
	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT Bill No. 12 Plumbing and drainage				

### **Fixing of pipes**

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

### **Reducing fittings**

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

### **Exposed concrete surfaces**

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

### **Excavations**

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

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

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

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

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 12  
Plumbing and drainage

R

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 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 SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

#### **Flush pans**

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

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

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

#### **Waste unions**

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

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 12  
Plumbing and drainage

R

**RAINWATER DISPOSAL**

**0,8mm Galvanised sheet iron**

1	200 x 150mm Eaves gutters	m	22
2	Extra over 200 x 150mm eaves gutter for angle	No	4
3	Extra over 200 x 150mm eaves gutter for outlet for 125mm pipe	No	4
4	125mm Diameter rainwater pipes	m	12
5	Extra over 125mm diameter rainwater pipe for shoe	No	4
6	Extra over 125mm diameter rainwater pipe for bend	No	4
7	Extra over 125mm diameter rainwater pipe for eaves or plinth offset 600mm projection	No	4

**SANITARY FITTINGS**

**"Plumbcrazy" Grade 304 stainless steel**

8	"DEB Code 304-11A" Double bowl sink and drainer 1 350 x 535mm wide including fixing complete to walls with (Code 7880) mild steel brackets bolted with expansion bolts	No	1
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**WASTE UNIONS. ETC**

**"Cobra Watertech"**

9	40mm "316CP" Bath or sink waste union	No	1
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**TRAPS. ETC**

**"Marley"**

10	32 x 50mm Deep seal "P" or "S" trap	No	1
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**TAPS. VALVES. ETC**

**Brass**

11	15mm Fullway gate valve	No	2
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**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 12  
Plumbing and drainage

R



	<b><u>"Cobra Watertech"</u></b>				
12	15mm 059CP Extension piece with sliding wall flange	No	1		
13	15mm "166/041CP Carina" wall type sink mixer	No	1		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC pipes</u></b>				
14	50mm Pipes	m	5		
	<b><u>Extra over uPVC pipes for fittings</u></b>				
15	50mm Bend	No	2		
16	50mm "GI Two-way" vent valve	No	1		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 0 copper pipes</u></b>				
17	15mm Pipes	m	10		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
18	15mm Fittings	No	4		
	<b><u>TESTING</u></b>				
19	Testing water pipe system		Item		
	<b><u>FIRE APPLIANCES ETC</u></b>				
	<b><u>"Chubb"</u></b>				
20	4,5kg Carbon dioxide fire extinguisher complete with 520 x 115 x 22mm thick timber backboard plugged to wall and varnished	No	1		
	<b>Carried to Collection</b>				
	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT				
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	Plumbing and drainage				

R

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**ON METAL**

**Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel**

5	On door frames	m <sup>2</sup>	4
6	On windows with burglar bars	m <sup>2</sup>	11
7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m <sup>2</sup>	3
8	On rails, bars, pipes, etc not exceeding 300 mm girth	m	34

**ON WOOD**

**Three coats polyurethane semi-gloss varnish**

9	On doors	m <sup>2</sup>	7
10	On skirtings, rails, etc not exceeding 300mm girth	m	46

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 14  
Paintwork

R

Section No. 2

Bill No. 14

Paintwork

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SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 14  
Paintwork

R



**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

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 15  
External work

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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

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
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External work

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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

**Carried to Collection**

SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
Bill No. 15  
External work

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## **EARTHWORKS**

### **GENERAL SITE CLEARANCE ETC**

#### **Site clearance**

- |   |  |                |     |
|---|--|----------------|-----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m <sup>2</sup> | 283 |
| 2 | Stripping average 150mm thick layer of top soil and stockpiling on site  | m <sup>2</sup> | 283 |

### **BULK EXCAVATION. FILLING. ETC**

- |   |  |                |     |
|---|--|----------------|-----|
| 3 | Open face excavation to form platforms | m <sup>3</sup> | 425 |
|---|--|----------------|-----|

## **STORMWATER DRAINAGE**

### **(HAYLETT FORMULA WORK GROUP No. 146)**

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

- |   |   |   |    |
|---|---|---|----|
| 4 | V-shaped channel size 600mm wide x 300mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm polystyrene movement joints with exposed edges raked out for a depth of 25mm and filled with bituminous compound including all necessary excavation and formwork | m | 41 |
|---|---|---|----|

## **SOIL DRAINAGE**

### **uPVC Class 6 pipes as drain pipes with couplings**

- |   |             |   |    |
|---|-------------|---|----|
| 5 | 110mm Pipes | m | 15 |
|---|-------------|---|----|

## **WATER SUPPLY**

### **HDPE polyethylene Class 12 piping with 'Plasson' or other approved fittings**

- |   |   |   |    |
|---|---|---|----|
| 6 | 32mm pipe and excavations not exceeding 1m deep | m | 10 |
|---|---|---|----|

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SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT  
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**SUNDRIES**

- 7 50mm Diameter irrigation connection point including manhole box and cover

No

1

**TESTING**

- 8 Provide all necessary apparatus, water, etc. for and test the whole of Soil Drainage and Water supply systems to the satisfaction of the Principal Agent and Local Authority, rectify all defective work free of charge and leave in perfect order

Item

**Carried to Collection**

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<u>Filling and layer work materials</u>					
References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter					
<u>Testing</u>					
<i>Prices for filling are to include for all necessary density and other tests</i>					
<b><u>SITE CLEARANCE</u></b>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m <sup>2</sup>	57		
<b><u>REMOVAL OF TREES ETC</u></b>					
<u>Taking out and removing, grubbing up roots, filling in holes and compacting to ?% Mod AASHTO density</u>					
2	Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth	No	1		
<b><u>EXCAVATION. FILLING. ETC</u></b>					
<b><u>EXCAVATIONS ETC</u></b>					
<u>Open face excavation in earth over sloping site</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Trenches	m <sup>3</sup>	20		
4	Basements or Pit	m <sup>3</sup>	34		
5	Thickening under surface beds etc	m <sup>3</sup>	2		
<b>Carried to Collection</b>				R	
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
Bill No. 1					
Earthworks (provisional)					



	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 97% Mod AASHTO density</u>				
6	Not exceeding 2m deep for placing and removing formwork to walls etc, against excavated face	m <sup>2</sup>	49		
7	Extra over for excavation in soft rock	m <sup>3</sup>	0.5		
8	Extra over for excavation in hard rock	m <sup>3</sup>	0.2		
	<u>Extra over all excavations for carting away</u>				
9	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m <sup>3</sup>	10		
	<u>Risk of collapse of excavations</u>				
10	Sides of bulk excavations not exceeding 1,5m deep	m <sup>2</sup>	64		
11	Sides of bulk excavations exceeding 1,5m deep	m <sup>2</sup>	49		
	<u>Keeping excavations free of water</u>				
12	Keeping excavations free of all water other than subterranean water			Item	
	<b><u>FILLING ETC</u></b>				
	<u>Filling of gravel-soil material (G6) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
13	Over site to make up levels	m <sup>3</sup>	17		
14	Under floors, steps, pavings, etc	m <sup>3</sup>	6		
15	Backfilling to trenches, holes, etc	m <sup>3</sup>	19		
	<b><u>WEED KILLERS. INSECTICIDES. ETC</u></b>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
16	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m <sup>2</sup>	25		
17	To bottoms and sides of trenches etc	m <sup>2</sup>	76		
	<b>Carried to Collection</b>			R	
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	Earthworks (provisional)				

## TESTS

Prescribed tests to determine degree of compaction or other properties of ground or filling

18	"Modified AASHTO Density" test
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No

6

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Bill No. 1  
Earthworks (provisional)

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Bill No. 1

Earthworks (provisional)

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SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
Bill No. 1  
Earthworks (provisional)

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Formwork

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

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

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

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

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

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

25MPa concrete

1	Strip footings	m <sup>3</sup>	5
2	Surface beds on waterproofing	m <sup>3</sup>	6

**REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**Carried to Collection**

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
Bill No. 2  
Concrete, formwork and reinforcement

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14	<p><u>Fabric reinforcement</u></p> <p>Ref 193 fabric reinforcement in concrete surface beds, aprons etc</p> <p><b>Carried to Collection</b></p> <p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T</p> <p>Bill No. 2</p> <p>Concrete, formwork and reinforcement</p>	m²	35		<p>R</p>
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Wall ties for blockwork

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

Blockwork

Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"

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

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

**DECORATIVE BLOCKS**

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour

**BRICKWORK**

**FOUNDATIONS (PROVISIONAL)**

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar

**Carried to Collection**

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
Bill No. 3  
Masonry

R

<b><u>SUPERSTRUCTURE</u></b>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>					
1	Half brick walls	m <sup>2</sup>	10		
2	One brick walls	m <sup>2</sup>	66		
3	One brick walls in beamfilling	m <sup>2</sup>	2		
<b><u>BRICKWORK SUNDRIES</u></b>					
<u>2,5mm Galvanised brick reinforcement</u>					
4	75mm Wide reinforcement built in horizontally	m	34		
5	110mm Wide reinforcement built in horizontally	m	270		
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>					
6	110 x 75mm Lintels in lengths not exceeding 3m	m	13		
<u>Galvanised wire ties etc</u>					
7	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	10		
<u>Air bricks etc</u>					
8	229 x 76mm Clay vermin proof air brick	No	3		
<b><u>FACE BRICKWORK</u></b>					
<u>External face bricks (Prime Cost Amount R 4 500.00/1000) pointed with flush horizontal and vertical joints</u>					
9	Extra over brickwork in foundations for face brickwork (Provisional)	m <sup>2</sup>	57		
10	Extra over brickwork to beamfilling for face brickwork	m <sup>2</sup>	4		
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Masonry

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Masonry

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Item No		Unit	Quantity	Rate	Amount R
	<b><u>SECTION 3</u></b>				
	<b><u>BILL NO 4</u></b>				
	<b><u>WATERPROOFING</u></b>				
	<u>Waterproofing</u>				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>				
	<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>				
1	In walls	m <sup>2</sup>	127		
	<u>One layer 375 (500, 1000?) micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape</u>				
2	Under surface bedS	m <sup>2</sup>	20		
	<b><u>WATERPROOFING TO BASEMENTS</u></b>				
	<u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spun bonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps</u>				
3	On walls	m <sup>2</sup>	49		
4	On turn-ups and turn-downs exceeding 300mm girth edit this	m <sup>2</sup>	8		
	<b>Carried Forward to Summary of Section No.</b>				R
	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
	Bill No. 4				
	Waterproofing				

Item No		Unit	Quantity	Rate	Amount R
	<b><u>SECTION 3</u></b>				
	<b><u>BILL NO 5</u></b>				
	<b><u>ROOF COVERINGS, CLADDINGS, ETC</u></b>				
	<i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<i>Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such</i>				
	<i>Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium</i>				
	<u>(0,6)mm Z275 spelter galvanised corrugated steel sheets fixed to timber purlins or rails</u>				
1	Roof covering with pitches not exceeding 25 degrees	m <sup>2</sup>	59		
	<u>0,6mm Z275 spelter galvanised steel sheet accessories to preceding roof coverings</u>				
2	Ridge cappings 308mm girth	m	7		
	<b><u>ROOF AND WALL INSULATION</u></b>				
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m<sup>2</sup> and a Class I fire rating in accordance with SANS 0177-3</u>				
3	Insulation sheeting fixed to underside of rafters (at approximately 1 100mm centres) with 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m <sup>2</sup>	32		
	<b>Carried Forward to Summary of Section No.</b>				R
	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
	Bill No. 5				
	Roof coverings, claddings, etc				





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Section No. 3

Bill No. 6

Carpentry and joinery

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Carpentry and joinery

R



	<p><b><u>HANDLES</u></b></p> <p><u>Manufactured by "SOLID"</u></p> <p><u>In accordance with "Solid" catalogue</u></p> <p>4 Anodised aluminium pull handle</p> <p><b><u>PHOTOLUMINESCENT SIGNS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames</p> <p>Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables</p> <p>Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels</p> <p>Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender</p> <p>A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer</p> <p>References at the end of the item descriptions are to the relative items on drawings annexed to these bills of quantities</p> <p><u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u></p> <p><u>Ceiling mounted single sided photoluminescent statutory signs in 150 x 150mm modules</u></p> <p><u>Ceiling mounted double sided photoluminescent statutory signs in 150 x 150mm modules</u></p> <p>5 150 x 150mm Sign with one number</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 7 Ironmongery</p>	No	5	
				R

**BATHROOM FITTINGS**

**LETTERS, NAMEPLATES, ETC**

**"Union"**

6	"AL5022-E10" 152 X 152mm anodised aluminium plate with male symbol	No	1
7	"AL5022-E10" 152 x 152mm anodised aluminium plate with female symbol	No	1
8	"AL5022-E14" 152 x 152mm anodised aluminium plate with paraplegic/ teacher symbol	No	1
<u>Manufactured by "Union"</u>			
<u>In accordance with "Union" catalogue</u>			
9	Chromium plated lockable toilet roll holder, plugged	No	4
10	Chromium plated soap dish, plugged	No	4

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Bill No. 7  
Ironmongery

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Bill No. 7

Ironmongery

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SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
Bill No. 7  
Ironmongery

R



The following certificates shall be provided prior to commencement of site work:				
1	A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product			
2	A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively			
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years			
a				
<b><u>STEEL GATES. SCREENS. ETC</u></b>				
<b><u>GALVANISED STEEL GATES. SCREENS. ETC</u></b>				
<u>Welded screens and gates to walls</u>				
1	50 x 2,5mm Galvanised diamond mesh covering in approximately 2 032m high panels tied with 1,6mm galvanised binding wire to frames	No	1	
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>				
<u>1,6mm Rebated frames suitable for half brick walls</u>				
2	Frame for door 813 x 2032mm high	No	3	
<b>Carried to Collection</b>				R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
Bill No. 8				
Metalwork				



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Section No. 3

Bill No. 8

Metalwork

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Bill No. 8  
Metalwork

R

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

Stainless steel for economy basins, domestic sinks and worktops 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)

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

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

**Carried to Collection**

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
Bill No. 10  
Plumbing and drainage

R

#### Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

#### Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

#### Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

#### Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

**Carried to Collection**

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Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion

Petrolatum anti-corrosion tape

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 5% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

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Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**RAINWATER DISPOSAL**

**"Marley Streamline" uPVC**

1	110mm Half-round roof gutters	m	11
2	110mm Diameter rainwater pipes	m	4
3	Extra over gutter for stopped end	No	4
4	Extra over gutter for outlet for 110mm pipe	No	2
5	Extra over rainwater pipe for bend	No	4
6	Extra over rainwater pipe for shoe	No	2

**SANITARY FITTINGS**

Manufactured by "CHARLOG" or similar approved

7	"Christy" or similar approved plastic wash hand basin on brackets fixed to brickwall.	No	4
8	"Charlog" VIP 200 or similar approved WC suite comprising WC pan with double flap heavy duty plastic seat	No	4

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**WASTE UNIONS ETC**

Cobra Watertech

9 32mm chromium plated basin waste union

No

4

**TRAPS ETC**

10 50mm Rubber "P" or "S" trap

No

4

**TAPS. VALVES. ETC**

11 15mm Brass hose bib-tap

No

4

**SANITARY PLUMBING**

PVC-U soil and vent pipes

12 50mm Pipes

m

20

13 110mm Vent pipes fixed to brickwork

m

12

Extra over PVC-U soil and vent pipes for fittings

14 50mm Bend

No

16

15 50mm Junction

No

4

**WATER SUPPLIES**

Galvanised heavy steel pipes with screwed and socketed joints

16 20mm Pipes

m

20

Extra over galvanised heavy steel pipes with screwed and socketed joints for steel fittings

17 20mm Fittings

No

24

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## GLAZING

The term "float glass" is used for monolithic annealed glass

Laminated glass to have polyvinyl butyral (PVB) interlayer(s)

8.38mm Normal strength obscure glass

1	Panes not exceeding 0,1m²
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 $m^2$ 

2

**6mm Silvered float glass copper backed mirrors  
with polished edges holed for and fixed with  
chromium plated dome capped mirror screws with  
rubber buffers to plugs in brickwork or concrete**

2	Mirror 400 x 600mm high with four screws
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No

4

R



**ON METAL SURFACES**

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

3	Door frames	m <sup>2</sup>	4
4	Windows	m <sup>2</sup>	4
5	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m <sup>2</sup>	4

**ON WOOD SURFACES**

One coat primer and two coats premium quality polyurethane enamel paint

6	Doors	m <sup>2</sup>	19
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Paintwork

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<b><u>Test blocks</u></b>					
9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith	Sets	5		
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>					
10	Surface beds, slabs, etc	m <sup>2</sup>	6		
<b><u>Smooth formwork to sides</u></b>					
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	10		
<b><u>Anchors to existing concrete</u></b>					
12	4mm Galvanized anchor steel bar fixed to concrete	No	4		
<b><u>REINFORCEMENT</u></b>					
<b><u>Fabric reinforcement</u></b>					
13	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	6		
<b><u>WATER TANKS</u></b>					
14	5000 Lt "JoJo" or similar approved water storage tank on stand.	No	1		
<b><u>PRECAST CONCRETE SLABS ETC</u></b>					
15	1,155 x 375mm Thick duct cover slabs in suitable lengths, closely butted at ends including bedding edges along both sides (reinforcement elsewhere)	No	6		
16	2,130 x 375mm Thick duct cover slabs in suitable lengths, closely butted at ends including bedding edges along both sides (reinforcement elsewhere)	No	2		
<b><u>COVERED WALKWAYS</u></b>					
<b><u>EARTHWORKS</u></b>					
<b>Carried to Collection</b>				R	
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
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**(HAYLETT FORMULA WORK GROUP NO. 104)**

**EXCAVATION. FILLING. ETC**

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

17	Holes	m <sup>3</sup>	3
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**Extra over trench and hole excavations in earth for excavation in**

18	Soft rock	m <sup>3</sup>	0.3
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19	Hard rock	m <sup>3</sup>	0.1
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**Extra over all excavations for carting away**

20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	1
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**Risk of collapse of excavations**

21	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	5
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**Keeping excavations free of water**

22	Keeping excavations free of all water other than subterranean water	Item	
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**G7 filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density**

23	Backfilling to trenches, holes, etc	m <sup>3</sup>	1
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**SOIL POISONING**

**Soil insecticide**

24	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m <sup>2</sup>	21
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25	Trenches	m <sup>2</sup>	20
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**Carried to Collection**

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
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## **CONCRETE**

### **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

#### **20MPa/19mm concrete**

26 Bases

m³

1

### **TEST BLOCKS**

27 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)

No

5

## **MASONRY**

NOTE :

Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes

## **PAVING**

**60mm Standard grey interlocking paving blocks laid with butt joints (Prime Cost Amount R 1500/1000) on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down, including preparation of ground or filling**

28 Paving in herringbone bond to aprons

m²

21

**Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing**

29 Garden kerb (SABS 927 fig 12) 50 x 100 x 200mm high unreinforced concrete, each joint including excavation, backfilling, etc

m

21

## **WATERPROOFING**

**One layer of 250 micron "Consol Plastics Gunplas USB Green" or other equal and approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"**

30 Under surface beds

m²

21

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SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
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External work

## **ROOF COVERINGS ETC**

NOTE :

Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes

## **PROFILED METAL SHEETING AND ACCESSORIES**

**0,6mm thick coruugated sheeting on 75 x 50mm S.A Pine Purlins.**

31	Roof covering with pitch not exceeding 25 degrees	m <sup>2</sup>	36
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## **STRUCTURAL STEELWORK (PROVISIONAL)**

NOTE :

Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes

**Supply structural steel members, fabricate to approved shop drawings complete with bolts and/or 6mm continuous fillet welds, with one under coat primer and two coats approved metal coating min thickness 0.15mm, include process control, loading, transporting to site, off loading and erection**

32	100 x 100 x 2mm thick cold rolled square tube beams welded on 100 x 100 x 2mm thick cold rolled square tube columns	m	35
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**Paving of 200 x 100 x 60mm thick paving bricks with butt joints on 30mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling**

Carried to Collection

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T  
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External work

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**PAINTWORK**

**ON METAL**

**Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel**

33

On steel columns

m

35

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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

**Carried to Collection**

SECTION NO.4 - EXTERNAL WORKS  
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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

### **Fencing**

1	1800mm Galvanised diamond mesh fence including Corner post, gate post, immediate post size 1.8m high with cap and baseplate in concrete base	m	149
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- 2 Double vehicular gate and frame 6 000 x 1 800mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 900 x 1 800mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrel bolt and padlock

No

1

**Water Fountain**

- 3 Supply and Install Concrete water fountain including water supply

No

1

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SECTION NO.4 - EXTERNAL WORKS

Bill No. 1

General Site Works (Provisional)



User note

*Refer hereunder to "nominated subcontractors" or "selected subcontractors" or both as the case may be and in accordance with the relevant building agreement (building contract)*

*Where "attendance" is defined in the relevant subcontract agreement/subcontract, the user is to refer thereto and is to ensure that the designations therein are used. Where "attendance" is not defined in the relevant subcontract agreement/subcontract, the user is to provide a detailed description of the "attendance" required from the contractor*

General attendance on nominated/selected subcontractors

User note

*Use the following descriptions where the JBCC N/S Subcontract Agreement is applicable*

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

Special attendance on nominated/selected subcontractors

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

Builder's work

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

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SECTION NO 5 - PROVISIONAL SUMS  
Bill No. 1  
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**PROVISIONAL SUMS FOR  
NOMINATED/SELECTED SUBCONTRACT  
WORKS**

General electrical installation

1 Provide the sum of R 300 000.00 (Three Hundred Thousand Rands) for general electrical installation

Item 300 000.00

2 Profit

%

3 Attendance

%

Community Liaison Officer

4 Provide the sum of R 80 000.00 ( Eighty Thousand Rands) for Community Liaison Officer's salary

Item 80 000.00

5 Profit

%

6 Attendance

%

Play Area Equipment

7 Provide the sum of R 50 000.00 ( Fifty Thousand Rands) for New Jungle Gym

Item 50 000.00

8 Profit

%

9 Attendance

%

Playpen Sand

10 Provide the sum of R 10 000.00 (Ten Thousand Rands) for Playpen Sand around Jungle Gym

Item 10 000.00

11 Profit

%

12 Attendance

%

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SECTION NO 5 - PROVISIONAL SUMS

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Provisional sums

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