

Item No		Quantity	Amount R
	<p><u>SECTION 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>A1.0 DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <div style="text-align: right; margin-top: 20px;">Carried to Collection</div> <p>SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries</p>		

"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

Fixed: _____ Value related: _____ Time related: _____

Item

3 A3.0 DOCUMENTS

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

Fixed: _____ Value related: _____ Time related: _____

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4	<p>A4.0 DESIGN RESPONSIBILITY</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>A5.0 EMPLOYER'S AGENTS</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>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
9	<p>A9.0 INDEMNITIES</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: _____

Item

11 A11.0 LIABILITY INSURANCES

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

Item

12 A12.0 EFFECTING INSURANCES

Clause 12.0

Fixed: _____ Value related: _____ Time related: _____

Item

13 A13.0 No clause

N/A

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14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>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</p> <p>14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>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</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p> <p>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</p> <p>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</p>		
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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 per cent (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

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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:

Item

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

Clause 16.0

Fixed: Value related: Time related:

Item

17	A17.0 CONTRACT INSTRUCTIONS
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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:

Item

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

Clause 18.0

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25	A25.0 WORKS COMPLETION Clause 25.0 Fixed:_____ Value related:_____ Time related:_____	Item
26	A26.0 FINAL COMPLETION Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 Fixed:_____ Value related:_____ Time related:_____	Item
27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed:_____ Value related:_____ Time related:_____	Item
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed:_____ Value related:_____ Time related:_____	Item
29	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item
30	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed:_____ Value related:_____ Time related:_____	Item
	PAYMENT	
31	A31.0 INTERIM PAYMENT TO THE CONTRACTOR 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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	<p>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</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>		
32	<p>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the contractor"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
33	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where 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"</p> <p>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"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
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35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CANCELLATION</u></p>	Item	
36	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
37	<p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p>		
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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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	<u>DISPUTE</u>		
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	
	<u>SUBSTITUTE PROVISIONS</u>		
41	A41.0 STATE CLAUSES		
	Clause 41.0		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>CONTRACT VARIABLES</u>		
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

B1.1 Definitions and interpretation

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

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

B3.1 Defined works area

Fixed: _____ Value related: _____ Time related: _____

Item

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51	B3.2 Geotechnical investigation		
	Fixed:_____ Value related:_____ Time related:_____	Item	
52	B3.3 Inspection of the site		
	Fixed:_____ Value related:_____ Time related:_____	Item	
53	B3.4 Existing premises occupied		
	Fixed:_____ Value related:_____ Time related:_____	Item	
54	B3.5 Previous work - dimensional accuracy		
	Fixed:_____ Value related:_____ Time related:_____	Item	
55	B3.6 Previous work - defects		
	Fixed:_____ Value related:_____ Time related:_____	Item	
56	B3.7 Services - known		
	Fixed:_____ Value related:_____ Time related:_____	Item	
57	B3.8 Services - unknown		
	Fixed:_____ Value related:_____ Time related:_____	Item	
58	B3.9 Protection of trees		
	Fixed:_____ Value related:_____ Time related:_____	Item	
59	B3.10 Articles of value		
	Fixed:_____ Value related:_____ Time related:_____	Item	
60	B3.11 Inspection of adjoining properties		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
61	B4.1 Management of the works		
	Fixed:_____ Value related:_____ Time related:_____	Item	
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[illegible]

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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:

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<p>12.1.16 Water [7.2] Option A (by contractor) YES/NO</p> <p>Option B (by employer - free of charge) YES/NO</p> <p>Option C (by employer - metered) YES/NO</p> <p>12.1.17 Electricity [7.3] Option A (by contractor) YES/NO</p> <p>Option B (by employer - free of charge) YES/NO</p> <p>Option C (by employer - metered) YES/NO</p> <p>12.1.18 Telecommunications [7.4] Telephone YES/NO</p> <p>Facsimile YES/NO</p> <p>E-mail YES/NO</p> <p>12.1.19 Ablution facilities [7.5] Option A (by contractor) YES/NO</p> <p>Option B (by employer) YES/NO</p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required YES/NO</p>		
<p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>	

<p>12.1.21 Special attendance [9.2] Subcontractor (1) details:</p> <p>Subcontractor (2) details:</p> <p>Subcontractor (3) details:</p> <p>Subcontractor (4) details:</p> <p>12.1.22 Protection of the works [11.1] Specific requirements:</p> <p>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</p> <p>12.1.24 Environmental disturbance [11.6] Specific requirements:</p> <p>12.2 POST-TENDER INFORMATION</p> <p>12.2.1 Payment of preliminaries [10.2] Option A (prorated) YES/NO</p> <p>Option B (calculated) YES/NO</p> <p>12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) YES/NO</p> <p>Option B (detailed breakdown) YES/NO</p> <p>12.2.3 Additional agreed preliminaries items Details:</p> <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>
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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

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105	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</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>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
107	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
108	<p>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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109	<p>C8.0 SECURITY CHECK OF PERSONNEL</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</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>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>		
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C10.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____ Time related: _____

Item

C10.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____ Time related: _____

Item

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____ Time related: _____

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: _____

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	<p>C10.5 MONITORING</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
112	<p>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), edition 23 Code of Practice</p> <p>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</p> <p>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</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
113	<p>C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 4)</p> <p>The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 4. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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114	<p>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 7(1)(a))</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>C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 7(1)(c)(iv))</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>C11.4 HEALTH AND SAFETY FILE (Construction Regulation 7(1)(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>C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 8.5(6))</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 6</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
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118	<p>C11.6 RISK ASSESSMENT FOR CONSTRUCTION (Construction Regulation 9)</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>C11.7 SIGNIFICANT HAZARDOUS IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS (Construction Regulation 9)</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>C11.8 ADDITIONAL FINANCIAL PROVISION (Construction Regulation 5(1)(g))</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>C11.9 FALL PROTECTION PLAN (Construction Regulation 10)</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>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 7(8))</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>C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT (Construction Regulation 23)</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>C11.12 TRAINING (Construction Regulation 8 (c))</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>C11.13 DEMOLITION WORK (Construction Regulation 14)</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	
<p style="text-align: right;">Carried to Collection</p>			R
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C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Abatement Regulation)

The principle contractor shall appoint a contractor that is registered with the

Department of Labour as an AIA. The contractor must allow for;

NOTIFICATION OF ASBESTOS PROCESSING

PERSONAL PROTECTIVE EQUIPMENT

PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE

DEMOLITION WORK OF SHEETS

LABELLING AND INFORMATION

Fixed: _____ Value related: _____ Time
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Total Brought Forward from Page No.	25	
Total Brought Forward from Page No.	26	
Total Brought Forward from Page No.	27	
Total Brought Forward from Page No.	28	
Total Brought Forward from Page No.	29	
Total Brought Forward from Page No.	30	
Total Brought Forward from Page No.	31	
Total Brought Forward from Page No.	32	
Total Brought Forward from Page No.	33	
Total Brought Forward from Page No.	34	
Total Brought Forward from Page No.	35	
Total Brought Forward from Page No.	36	
Total Brought Forward from Page No.	37	
Carried to Final Summary	R	
SECTION NO.1 - PRELIMINARIES		
Bill No. 1		
Preliminaries		

Item No	Unit	Quantity	Rate	Amount R
<u>SECTION 2</u>				
<u>BILL NO. 1</u>				
<u>FOUNDATIONS (PROVISIONAL)</u>				
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 104 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Nature of ground</u>				
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"				
<u>Carting away of excavated material</u>				
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				
<u>EARTHWORKS</u>				
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under floors	m³	17	
2	Trenches	m³	32	
3	Holes	m³	1	
4	Trenches and holes for thickening under surface bed, etc	m³	0.1	
Carried to Collection				R
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT Bill No. 1 Earthworks (provisional)				

<u>Extra over trench and hole excavations in earth for excavation in</u>					
5	Soft rock	m ³	3		
6	Hard rock	m ³	2		
<u>Extra over all excavations for carting away</u>					
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	12		
<u>Risk of collapse of excavations</u>					
8	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	92		
<u>Keeping excavations free of water</u>					
9	Keeping excavations free of all water other than subterranean water			Item	
<u>G5 filling obtained from excavations compacted to 95% Mod AASHTO density</u>					
10	Under floors, steps, pavings, etc	m ³	83		
11	Backfilling to trenches, holes, etc	m ³	11		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
12	Under floors, steps, pavings, etc	m ³	17		
<u>Coarse river sand filling supplied by the contractor</u>					
13	Under floors etc	m ³	8		
Carried to Collection				R	
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT					
Bill No. 1					
Earthworks (provisional)					

	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	166		
15	To bottoms and sides of trenches	m ²	125		
	<u>CONCRETE</u>				
	<u>(CPAP FORMULA WORK GROUP NO. 110)</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
16	Strip footings	m ³	8		
	<u>MOVEMENT JOINTS, ETC</u>				
	<u>Expansion joints with softboard between vertical concrete surfaces</u>				
17	12mm Joints not exceeding 300mm high	m	11		
	<u>BRICKWORK</u>				
	<u>(CPAP FORMULA WORK GROUP NO. 116)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
18	One brick walls	m ²	28		
	<u>Brickwork reinforcement</u>				
19	150mm Wide reinforcement built in horizontally	m	335		
	<u>External face bricks (Prime Cost Amount R 4 500.00/1000) pointed with flush horizontal and vertical joints</u>				
20	Extra over brickwork for face brickwork	m ²	28		
	Carried to Collection			R	
	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT Bill No. 1 Earthworks (provisional)				

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

[illegible]

Item No		Unit	Quantity	Rate	Amount R
	<u>SECTION 2</u>				
	<u>BILL NO. 2</u>				
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Cost of tests</u>				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)				
	<u>Formwork</u>				
	Description 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.				
	Carried to Collection				R
	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT				
	Bill No. 2				
	Concrete, formwork and reinforcement				

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

m³

25MPa/19mm concrete

2 Surface beds on waterproofing

m³

17

TEST BLOCKS

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

No

4

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

4 Aprons, slabs, etc to falls

m²

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

R

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

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11	Paving in herringbone bond
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m ²	42
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12	Garden kerb (SABS 927 fig 12) 50 x 100 x 200mm high unreinforced concrete, each joint including excavation, backfilling, etc
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m	28
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R

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[illegible]

R

Carried Forward to Summary of Section No.
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT
Bill No. 5
Roof coverings, claddings, etc

Item No	Unit	Quantity	Rate	Amount R
<p><u>SECTION 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.126 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>				
<p style="text-align: right;">Carried to Collection</p>				
<p>SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT</p> <p>Bill No. 6</p> <p>Carpentry and joinery</p>				

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 brandering.

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

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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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SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT
Bill No. 8
Floor coverings, wall linings, etc

-62-

<u>LETTERS, NAMEPLATES, ETC</u>					
3	60 x 3mm Thick perspex plate with two 40mm high engraved accordingly and painted	No	2		
<u>"Union"</u>					
4	"AL5022-E06" 150 x 150mm anodised aluminium plate with fire extinguisher symbol	No	1		
<u>SUNDRIES</u>					
<u>"Union"</u>					
5	"AL8730AS" door stop plugged	No	2		
6	"AL8722AS" rubber tipped hat and coat hook	No	2		
<u>STEEL LOCKERS</u>					
<u>"Greenfield Baseline Guardsman" Steel lockers with standard baked enamel finish</u>					
7	"GB002" locker 300 x 450 x 1 800mm high	No	1		
<u>WRITING BOARDS, PINNING BOARD, ETC</u>					
<u>"Virtrex" vitreous enamelled writing boards, etc to SABS CSK-36-1980</u>					
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		
<u>"Parrot products"</u>					
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					

[illegible]

Item No		Unit	Quantity	Rate	Amount R
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>WELDED SCREENS, GATES, ETC</u></p> <p><u>Steel gates and frames</u></p>				
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	No	1		
	Carried to Collection			R	
	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT Bill No. 10 Metalwork				

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

Carried to Collection

R

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

[illegible]

R

Item No		Unit	Quantity	Rate	Amount R
	<u>SECTION 2</u>				
	<u>BILL NO. 12</u>				
	<u>PLUMBING AND DRAINAGE</u>				
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>uPVC pipes and fittings:</u>				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed				
	<u>uPVC pressure pipes and fittings:</u>				
	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				
	<u>Copper pipes:</u>				
	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				
	Carried to Collection				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

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

[illegible]

[illegible]

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

5	On door frames	m ²	4
6	On windows with burglar bars	m ²	11
7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	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 ²	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

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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 200m² plan area per each 150mm thick layer

Carried to Collection

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

R

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
Bill No. 15
External work

R

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

R

<u>EARTHWORKS</u>					
<u>GENERAL SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	283		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	283		
<u>BULK EXCAVATION, FILLING, ETC</u>					
3	Open face excavation to form platforms	m ³	425		
<u>STORMWATER DRAINAGE</u>					
<u>(HAYLETT FORMULA WORK GROUP No. 146)</u>					
<u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>					
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		
<u>SOIL DRAINAGE</u>					
<u>uPVC Class 6 pipes as drain pipes with couplings</u>					
5	110mm Pipes	m	15		
<u>WATER SUPPLY</u>					
<u>HDPE polyethylene Class 12 piping with 'Plasson' or other approved fittings</u>					
6	32mm pipe and excavations not exceeding 1m deep	m	10		
Carried to Collection				R	
SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT					
Bill No. 15					
External work					

[illegible]

[illegible]

[illegible]

Item No	Unit	Quantity	Rate	Amount R
SECTION 3				
BILL NO. 1				
FOUNDATIONS (PROVISIONAL)				
<i>The following are typical examples of descriptions of "nature of ground"</i>				
<u>Nature of ground</u>				
The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"				
A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"				
<u>Subterranean water</u>				
Subterranean water is expected				
The water table is expected to vary between approximately 2m and 6m below natural ground level. The removal of subterranean water is given separately				
<u>Carting away of excavated material</u>				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Carried to Collection				R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 1 Earthworks (provisional)				

<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>					
<u>SITE CLEARANCE</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	57		
<u>REMOVAL OF TREES ETC</u>					
<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		
<u>EXCAVATION, FILLING, ETC</u>					
<u>EXCAVATIONS ETC</u>					
<u>Open face excavation in earth over sloping site</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Trenches	m ³	20		
4	Basements or Pit	m ³	34		
5	Thickening under surface beds etc	m ³	2		
Carried to Collection				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 ²	49		
7	Extra over for excavation in soft rock	m ³	0.5		
8	Extra over for excavation in hard rock	m ³	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 ³	10		
	<u>Risk of collapse of excavations</u>				
10	Sides of bulk excavations not exceeding 1,5m deep	m ²	64		
11	Sides of bulk excavations exceeding 1,5m deep	m ²	49		
	<u>Keeping excavations free of water</u>				
12	Keeping excavations free of all water other than subterranean water			Item	
	<u>FILLING ETC</u>				
	<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 ³	17		
14	Under floors, steps, pavings, etc	m ³	6		
15	Backfilling to trenches, holes, etc	m ³	19		
	<u>WEED KILLERS, INSECTICIDES, ETC</u>				
	<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 ²	25		
17	To bottoms and sides of trenches etc	m ²	76		
	Carried to Collection			R	
	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
	Bill No. 1				
	Earthworks (provisional)				

TESTS

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

18	"Modified AASHTO Density" test
----	--------------------------------

No

6

Carried to Collection

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

R

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Item No	Unit	Quantity	Rate	Amount R
<u>SECTION 3</u>				
<u>BILL NO 2</u>				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>Cost of tests</u>				
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)				
<u>Breeze concrete</u>				
Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated				
<u>Lightweight concrete</u>				
Lightweight concrete shall have a density of 600kg/m ³ for the top 50mm and 400kg/m ³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm				
Carried to Collection				R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
Bill No. 2				
Concrete, formwork and reinforcement				

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 ³	5
2	Surface beds on waterproofing	m ³	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

R

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

[illegible]

Item No	Unit	Quantity	Rate	Amount R
<p><u>SECTION 3</u></p> <p><u>BILL NO 3</u></p> <p><u>MASONRY</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>BLOCKWORK</u></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p>				
<p style="text-align: right;">Carried to Collection</p>				
<p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T</p> <p>Bill No. 3</p> <p>Masonry</p>				

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

<u>SUPERSTRUCTURE</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>					
1	Half brick walls	m ²	10		
2	One brick walls	m ²	66		
3	One brick walls in beamfilling	m ²	2		
<u>BRICKWORK SUNDRIES</u>					
<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		
<u>FACE BRICKWORK</u>					
<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 ²	57		
10	Extra over brickwork to beamfilling for face brickwork	m ²	4		
Carried to Collection					
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
Bill No. 3					
Masonry					

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

R

Item No		Unit	Quantity	Rate	Amount R
	<u>SECTION 3</u>				
	<u>BILL NO 5</u>				
	<u>ROOF COVERINGS, CLADDINGS, ETC</u>				
	<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>				
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
	<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 ²	59		
	<u>0.6mm Z275 spelter galvanised steel sheet accessories to preceding roof coverings</u>				
2	Ridge cappings 308mm girth	m	7		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² 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 ²	32		
	Carried Forward to Summary of Section No.				R
	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
	Bill No. 5				
	Roof coverings, claddings, etc				

Item No		Unit	Quantity	Rate	Amount R
	<p><u>SECTION 3</u></p> <p><u>BILL NO 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Decorative thermosetting plastic laminate covering</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Trusses are at maximum 1 100mm centres</p> <p>Roof covering is on purlins</p> <p>Ceiling is 6.4mm sheeting on 38 x 38mm brandering</p> <p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences</p> <p><u>Sawn softwood</u></p>				
1	38 x 114mm Wall plates	m	18		
2	38 x 114mm Rafters	m	73		
	Carried to Collection			R	
	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 6 Carpentry and joinery				

3	76 x 52mm Purlins <u>Fibre-cement socketless barge boards</u>	m	107		
4	12 x 225mm Barge boards, including aluminium H-profile jointing strips etc <u>DOORS ETC</u> <u>Wrought meranti doors hung to steel frames</u>	m	50		
5	40mm Framed and ledged batten door 2032 x 813mm high <u>Semi-solid flush doors with 3,2mm plain hardboard covering on both sides, hung to steel frames</u>	No	2		
6	40mm Door 2032 x 813mm high	No	3		
				R	
<p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T</p> <p>Bill No. 6</p> <p>Carpentry and joinery</p>					

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Item No		Unit	Quantity	Rate	Amount R
<u>SECTION 3</u>					
<u>BILL NO 7</u>					
<u>IRONMONGERY</u>					
<u>Proprietary items</u>					
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items					
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered					
On request returnable samples are to be provided to the principal agent for consideration					
<u>LOCKS</u>					
<u>Keys</u>					
Unless otherwise described locks shall have two keys each					
<u>"EN-SUITE" LOCKS</u>					
The following locks are to be suitable for master key operation					
1	50mm padlock	No	1		
2	Bathroom lockset	No	3		
3	Three-lever lockset	No	2		
Carried to Collection					R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 7 Ironmongery					

	<u>HANDLES</u>				
	<u>Manufactured by "SOLID"</u>				
	<u>In accordance with "Solid" catalogue</u>				
4	Anodised aluminium pull handle	No	5		
	<u>PHOTOLUMINESCENT SIGNS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	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				
	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				
	Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels				
	Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender				
	A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer				
	References at the end of the item descriptions are to the relative items on drawings annexed to these bills of quantities				
	<u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u>				
	<u>Ceiling mounted single sided photoluminescent statutory signs in 150 x 150mm modules</u>				
	<u>Ceiling mounted double sided photoluminescent statutory signs in 150 x 150mm modules</u>				
5	150 x 150mm Sign with one number	No	5		
	<p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 7 Ironmongery</p>			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

Carried to Collection

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

R

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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				
<u>STEEL GATES, SCREENS, ETC</u>				
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
<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	
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
<u>1,6mm Rebated frames suitable for half brick walls</u>				
2	Frame for door 813 x 2032mm high	No	3	
Carried to Collection				R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
Bill No. 8				
Metalwork				

[illegible]

[illegible]

[illegible]

Item No	Unit	Quantity	Rate	Amount R
<u>SECTION 3</u>				
<u>BILL NO 10</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>(PROVISIONAL?)</u>				
<u>Wire gratings</u>				
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings				
<u>Stormwater channels</u>				
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site				
<u>French drains</u>				
Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site				
<u>Septic tanks</u>				
Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site				
Carried to Collection				R
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
Bill No. 10				
Plumbing and drainage				

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

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

R

<p><u>Paper wrapping to pipes</u></p> <p>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</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Petrolatum anti-corrosion tape</u></p> <p>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</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p> <p><u>General</u></p> <p>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)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>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</p> <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T Bill No. 10 Plumbing and drainage</p>				<div style="border: 1px solid black; height: 100%; width: 100%; position: relative;"> <div style="position: absolute; bottom: 0; right: 0; width: 50px; height: 50px; border: 1px solid black; border-bottom: none; border-right: none;"></div> </div>
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<p>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)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>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)</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>"Marley Streamline" uPVC</u></p>					
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		
<u>SANITARY FITTINGS</u>					
<u>Manufactured by "CHARLOG" or similar approved</u>					
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		
Carried to Collection					
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
Bill No. 10					
Plumbing and drainage					
				R	

<u>WASTE UNIONS ETC</u>				
<u>Cobra Watertech</u>				
9	32mm chromium plated basin waste union	No	4	
<u>TRAPS ETC</u>				
10	50mm Rubber "P" or "S" trap	No	4	
<u>TAPS, VALVES, ETC</u>				
11	15mm Brass hose bib-tap	No	4	
<u>SANITARY PLUMBING</u>				
<u>PVC-U soil and vent pipes</u>				
12	50mm Pipes	m	20	
13	110mm Vent pipes fixed to brickwork	m	12	
<u>Extra over PVC-U soil and vent pipes for fittings</u>				
14	50mm Bend	No	16	
15	50mm Junction	No	4	
<u>WATER SUPPLIES</u>				
<u>Galvanised heavy steel pipes with screwed and socketed joints</u>				
16	20mm Pipes	m	20	
<u>Extra over galvanised heavy steel pipes with screwed and socketed joints for steel fittings</u>				
17	20mm Fittings	No	24	
Carried to Collection				
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T				
Bill No. 10				
Plumbing and drainage				

R

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SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T
Bill No. 11
Glazing

ON METAL SURFACES

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

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

ON WOOD SURFACES

One coat primer and two coats premium quality polyurethane enamel paint

6	Doors	m ²	19
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Carried to Collection

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T
Bill No. 12
Paintwork

R

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-127-

<u>Test blocks</u>					
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		
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
10	Surface beds, slabs, etc	m ²	6		
<u>Smooth formwork to sides</u>					
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	10		
<u>Anchors to existing concrete</u>					
12	4mm Galvanized anchor steel bar fixed to concrete	No	4		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement</u>					
13	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m ²	6		
<u>WATER TANKS</u>					
14	5000 Lt "JoJo" or similar approved water storage tank on stand.	No	1		
<u>PRECAST CONCRETE SLABS ETC</u>					
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		
<u>COVERED WALKWAYS</u>					
<u>EARTHWORKS</u>					
Carried to Collection				R	
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
Bill No. 13					
External work					

<u>(HAYLETT FORMULA WORK GROUP NO. 104)</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
17	Holes	m ³	3		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
18	Soft rock	m ³	0.3		
19	Hard rock	m ³	0.1		
<u>Extra over all excavations for carting away</u>					
20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1		
<u>Risk of collapse of excavations</u>					
21	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	5		
<u>Keeping excavations free of water</u>					
22	Keeping excavations free of all water other than subterranean water			Item	
<u>G7 filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>					
23	Backfilling to trenches, holes, etc	m ³	1		
<u>SOIL POISONING</u>					
<u>Soil insecticide</u>					
24	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	21		
25	Trenches	m ²	20		
Carried to Collection					
SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T					
Bill No. 13					
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 ²	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
Bill No. 13
External work

R

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

Carried to Collection

SECTION NO.3 - 3R1T - THREE GRADE R AND ONE T
Bill No. 13
External work

R

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[illegible]

Item No	Quantity	Rate	Amount R
<p><u>SECTION NO.4</u></p> <p><u>BILL NO. 1</u></p> <p><u>GENERAL SITE WORKS, ETC (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Specification of materials and methods to be used - PW 371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 3</u></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><u>General</u></p> <p>The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed</p> <p><u>Site clearance</u></p> <p>All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent</p>			
<p style="text-align: right;">Carried to Collection</p>			
<p>SECTION NO.4 - EXTERNAL WORKS</p> <p>Bill No. 1</p> <p>General Site Works (Provisional)</p>			

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 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 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 200m² plan area per each 150mm thick layer

Carried to Collection

SECTION NO.4 - EXTERNAL WORKS

Bill No. 1

General Site Works (Provisional)

R

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

Bill No. 1

General Site Works (Provisional)

R

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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Carried to Collection

SECTION NO.4 - EXTERNAL WORKS
Bill No. 1
General Site Works (Provisional)

R

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

Carried to Collection

R

SECTION NO.4 - EXTERNAL WORKS
Bill No. 1
General Site Works (Provisional)

Section No. 4

Bill No. 1

General Site Works (Provisional)

COLLECTION PAGE

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Total Brought Forward from Page No.

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Total Brought Forward from Page No.

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Carried to Final Summary

R

SECTION NO.4 - EXTERNAL WORKS

Bill No. 1

General Site Works (Provisional)

Item No	Unit	Quantity	Rate	Amount R
<u>SECTION 4</u>				
<u>BILL NO 1</u>				
<u>PROVISIONAL SUMS</u>				
<u>User note</u>				
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>				
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>				
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <u>Where such model preambles are not applicable</u> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>				
<u>General</u>				
Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned				
Provisional sums are for material and equipment supplied and installed complete by firms of specialists				
<u>Profit</u>				
Where stated, the contractor may allow for profit if required				
Carried to Collection				R
SECTION NO 5 - PROVISIONAL SUMS				
Bill No. 1				
Provisional sums				

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

Carried to Collection

SECTION NO 5 - PROVISIONAL SUMS

Bill No. 1

Provisional sums

R

**PROVISIONAL SUMS FOR
NOMINATED/SELECTED SUBCONTRACT
WORKS**

General electrical installation

1 Provide the sum of R 154 347.60 (One Hundred and Fifty-Four Thousand Three Hundred and Forty-Seven Rands and Sixty Cents) for general electrical installation

Item

154 347.60

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

%

Carried to Collection

R

SECTION NO 5 - PROVISIONAL SUMS

Bill No. 1

Provisional sums

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FINAL SUMMARY		Page No	Amount R
1	SECTION NO.1 - PRELIMINARIES	39	
2	SECTION NO.2 - EARLY CHILDHOOD DEVELOPMENT - 1 CLASSROOM DRY	86	
3	SECTION NO.3 - 3R1T - THREE GRADE R AND ONE TEACHER VIP TOILET BLOCK	134	
4	SECTION NO.4 - EXTERNAL WORKS	140	
5	SECTION NO 5 - PROVISIONAL SUMS	144	
Subtotal			R
ADD: Contigencies at 10%			R
Subtotal			R
ADD: Value added Tax at 15%			R
TOTAL CARRIED TO FORM OF TENDER			R