

Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"

PRICING OF PRELIMINARIES

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

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions

1 Clause 1.0 - Definitions and interpretation
F:..... V:.....
T:.....

Item

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

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

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

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

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

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

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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**

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

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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

Objective and preparations

2 Clause 2.0 - Offer acceptance and performance obligations F:..... V:.....
T:.....

Item

3 Clause 3.0 - Documents F:.....
V:..... T:.....

Item

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**"

4 Clause 4.0 - Design responsibility F:.....
V:..... T:.....

Item

5 Clause 5.0 - Employer's agents F:.....
V:..... T:.....

Item

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

6 Clause 6.0 - Contractor's site representative
F:..... V:..... T:

Item

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7	<p>Clause 7.0 - Compliance with laws and regulations</p> <p>F: R..... V:..... T: R</p> <p>Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications</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>	Item			
8	<p>Clause 8.0 - Works risk</p> <p>F: V:..... T:.....</p>	Item			
9	<p>Clause 9.0 - Indemnities</p> <p>F:V:..... T:.....</p>	Item			
10	<p>Clause 10.0 - General insurances F:..... V:.....T:.....</p>	Item			
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- 11 Clause 10.0 is amended by the addition of the following clauses:
- 10.5 Damage to the Works
- a. Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- b. The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- c. The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- d. Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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- 12 **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

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the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

c. The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

d. The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

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**

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10.7 High risk insurance

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

10.7.1 Damage to the works

The **contractor** shall, from the **commencement date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage

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to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

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

10.7.2 Injury to persons or loss of or damage to property

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

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

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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

13	Clause 11.0 - Liability insurances F:..... V:..... T:.....	Item
14	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item
15	Clause 13.0 - No Clause F:..... V:..... T:.....	Item
16	Clause 14.0 - Security F: R..... V:..... T:.....	Item

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

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

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

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

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

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or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected

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

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

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

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

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

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

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

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

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal

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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

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

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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**

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certificate (excluding VAT), whereafter 14.7 shall be applicable

Execution

17 Clause 15.0 - Preparation for and execution of the works

F: R V: T:

Item

18 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

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19 Clause 16.0 - Access to the works

F: V:
T:

Item

20 Clause 17.0 - Contract instructions F:
V: T:

Item

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

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22	<p>Clause 18.0 - Setting out of the works</p> <p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments.</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 19.0 - Assignment</p> <p>F: V:..... T:</p>	Item		
24	<p>Clause 20.0 - Nominated subcontractors</p> <p>F:..... V:..... T:.....</p> <p>Clause 20.1.3 is amended by replacing it with the following: No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p>	Item		
25	<p>Clause 21.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
26	Clause 21 is amended by replacing it with: No clause	m		
27	<p>Clause 22.0 - Employer's direct contractors:</p> <p>F:..... V:..... T:.....</p>	Item		
28	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p> <p><u>Completion</u></p>	Item		
29	<p>Clause 24.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item		

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30	Clause 25.0 - Works completion F:..... V:..... T:.....	Item		
31	Clause 26.0 - Final completion F:..... V:..... T:.....	Item		
32	Clause 26.1.2 is amended by inserting "#" next to 26.1.2	m		
33	Clause 27.0 - Latent defects liability period F:..... V:..... T:.....	Item		
	Clause 27.0 is amended by the addition of the following clause: The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principle Agent and will not be permitted to wait until the end of the Defects Liability Period or until the amount of defects accumulate in order to attend to a comprehensive list of defects.			
34	Clause 28.0 - Sectional completion F:..... V:..... T:.....	Item		
35	Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item		
36	Clause 29.2.5 is amended by replacing it with: No clause	m		
37	Clause 30.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item		
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Payment

38 Clause 31.0 - Interim payment

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable

Materials and goods stored off site shall not be included in the amount authorised for payment

F:..... V:.....
T:.....

Item

39 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

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the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Alternative B

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

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

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

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

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

Clause 31.12 is amended by deleting the following:

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

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40 Clause 32.0 - Adjustment to the contract value

F:..... V:.....
T:.....

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41	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor "	m			
42	Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....		Item		
43	Clause 34.0 - Final account and final payment F:..... V:..... T:.....		Item		
44	Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" Clause 34.13 is amended by replacing "seven (7) calendar days " with "twenty-one (21) calendar days " and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"	m			
45	Clause 35.0 - Payment to other parties F:..... V:..... T:.....		Item		
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46	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....		Item		

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47	<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 36.0 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>	m			
48	<p>Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....</p>		Item		
49	<p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>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</p>	m			
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50 Clause 38.0 - Termination by contractor - employer's
default F:..... V:.....
T:.....

Item

51 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

m

52 Clause 39.0 - Termination - cessation of the works
F:..... V:.....
T:.....

Item

53 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"

m

Dispute

54 Clause 40.0 - Settlement of disputes
F:..... V:.....
T:.....

Item

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- 55 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

m

SUBSTITUTE PROVISIONS

- 56 Clause 41.0 - STATE CLAUSES

Item

CONTRACT VARIABLES

- 57 Clause 42.0 - THE SCHEDULE (DPW-04EC)

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

F:..... V:.....
T:.....

Item

The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties

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SECTION B - JBCC PRELIMINARIES

Definitions and interpretation

58 Clause 1.0 - Definitions and interpretation
F:..... V:.....
T:.....

Item

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

m

Documents

60 Clause 2.1 - Checking of documents
F:..... V:.....
T:.....

Item

61 Clause 2.2 - Provisional bills of quantities
F:..... V:.....
T:.....

Item

62 Clause 2.3 - Availability of construction documentation
F:..... V:.....
T:.....

Item

63 Clause 2.4 Interests of agents
F:..... V:.....
T:.....

Item

64 Clause 2.5 Priced documents
F:..... V:.....
T:.....

Item

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65	<p>Clause 2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>F:..... V:..... T:.....</p> <p><u>THE SITE</u></p>	Item
66	<p>Clause 3.1 Defined works area</p> <p>F:..... V:..... T:.....</p>	Item
67	<p>Clause 3.2 Geotechnical investigation</p> <p>F:..... V:..... T:.....</p>	Item
68	<p>Clause 3.3 Inspection of the site</p> <p>F:..... V:..... T:.....</p>	Item
69	<p>Clause 3.4 Existing premises occupied</p> <p>F:..... V:..... T:.....</p>	Item
70	<p>Clause 3.5 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p>	Item
71	<p>Clause 3.6 - Previous work - defects</p> <p>F:..... V:..... T:.....</p>	Item

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72	<p>Clause 3.7 Services - known</p> <p>F:..... V:..... T:.....</p>	Item
73	<p>Clause 3.8 Services - unknown</p> <p>F:..... V:..... T:.....</p>	Item
74	<p>Clause 3.9 Protection of trees</p> <p>F:..... V:..... T:.....</p>	Item
75	<p>Clause 3.10 Articles of value</p> <p>F:..... V:..... T:.....</p>	Item
76	<p>Clause 3.11 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p>	Item
<u>MANAGEMENT OF CONTRACT</u>		
77	<p>Clause 4.1 Management of the works</p> <p>F:..... V:..... T:.....</p>	Item
78	<p>Clause 4.2 Programme for the works</p> <p>F:..... V:..... T:.....</p>	Item
79	<p>Clause 4.3 Progress meetings</p> <p>F:..... V:..... T:.....</p>	Item
80	<p>Clause 4.4 Technical meetings</p> <p>F:..... V:..... T:.....</p>	Item
81	<p>Clause 4.5 Labour and plant records</p> <p>F:..... V:..... T:.....</p>	Item

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Samples, shop drawings and manufacturer's instructions

- | | | | | |
|----|--|------|--|--|
| 82 | Clause 5.1 - Samples of materials F:.....
V:..... T:..... | Item | | |
| 83 | Clause 5.2 - Workmanship samples F:.....
V:..... T:..... | Item | | |
| 84 | Clause 5.3 - Shop drawings
F:..... V:.....
T:..... | Item | | |
| 85 | Clause 5.4 - Compliance with manufacturer's instructions
F:..... V:.....
T:..... | Item | | |

TEMPORARY WORKS AND PLANT

- | | | | | |
|----|---|------|--|--|
| 86 | Clause 6.1 Deposits and fees
F:..... V:.....
T:..... | Item | | |
| 87 | Clause 6.2 Enclosure of the works
F:..... V:.....
T:..... | Item | | |
| 88 | Clause 6.3 Advertising
F:..... V:.....
T:..... | Item | | |
| 89 | Clause 6.4 Plant, equipment, sheds and offices
F:..... V:.....
T:..... | Item | | |
| 90 | Clause 6.5 Main notice board
F:..... V:.....
T:..... | Item | | |
| 91 | Clause 6.6 Subcontractors' notice board
F:..... V:.....
T:..... | Item | | |

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Temporary services

The employer does not warrant that any supply or service that may exist is adequate for the proper execution of the works. In the case of such supply or service being inadequate or non existing, the contractor shall provide adequate supply and services at his own cost

92	Clause 7.1 Location F: V: T:	Item
93	Clause 7.2 - Water F: V: T:	Item
94	Clause 7.3 - Electricity F: V: T:	Item
95	Clause 7.4 - Telecommunication facilities F: R V: T:	Item
96	Clause 7.5 - Ablution facilities F: V: T:	Item

Prime cost amounts

97	Clause 8.1 - Responsibility for prime cost amounts F: V: T:	Item
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Attendance on n/s subcontractors

98	Clause 9.1 General attendance F: V: T:	Item
99	Clause 9.2 - Special attendance F: V: T:	Item

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100 Clause 9.3 Commissioning - fuel, water and electricity
F: V: T:

Item

FINANCIAL ASPECTS

101 Clause 10.1 Statutory taxes, duties and levies
F: V:
T:

Item

102 Clause 10.2 Payment for preliminaries
F: V:
T:

Item

103 Clause 10.3 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"

F: V:
T:

Item

104 Clause 10.4 Payment certificate cash flow
F: V:
T:

Item

General

105 Clause 11.1 - Protection of the works
F: V:
T:

Item

106 Clause 11.2 - Protection/isolation of existing/sectionally
occupied works

F: V: T:

Item

107 Clause 11.3 - Security of the works

F: V: T:
.....

Item

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108	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
109	Clause 11.5 - Disturbance F:..... V:..... T:.....	Item		
110	Clause 11.6 - Environmental disturbance F:..... V:..... T:	Item		
111	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:	Item		
112	Clause 11.8 - Vermin F:..... V:..... T:.....	Item		
113	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item		
114	Clause 11.10 Instruction manuals and guarantees F:..... V:..... T:.....	Item		
115	Clause 11.11 As built information F:..... V:..... T:.....	Item		
116	Clause 11.12 Tenant installations F:..... V:..... T:.....	Item		
	<u>Schedule of variables</u>			
117	Clause 12.1 Schedule of variables	Item		
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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

12.1.1 - 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 [clause 3.5]

12.1.9 Services - known

[3.7] Details:

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

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

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

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

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

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

12.1.18 Telecommunications
[7.4] Telephone YES/NO

Facsimile YES/NO

E-mail YES/NO

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

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

12.1.20 Protection of existing/sectionally occupied works
[11.2] Protection is required
YES/NO

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

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 Protection of the works
[11.1] Specific requirements:

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

12.1.24 Environmental disturbance
[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

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

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

Option B (detailed breakdown)
YES/NO

12.2.3 Additional agreed preliminaries items
Details:

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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

118 **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**

F:..... V:.....
T:.....

Item

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119 **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

F:..... V:.....
T:.....

Item

120 **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

F:..... V:.....
T:.....

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121 **C4.0 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

F:..... V:.....
T:.....

Item

122 **C5.0 VIEWING THE SITE IN SECURITY AREAS**

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

F:..... V:.....
T:.....

Item

123 **C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS**

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

F:..... V:.....
T:.....

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124 C7.0 ENTRANCE PERMITS TO SECURITY AREAS

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

F:..... V:.....
T:.....

Item

125 C8.0 SECURITY CHECK OF PERSONNEL

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

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

F:..... V:.....
T:.....

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**C9.0 PROHIBITION ON TAKING OF
PHOTOGRAPHS**

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

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

F:..... V:.....
T:.....

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127	C10.0 HIV/AIDS AWARENESS
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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 entertain

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

F: V:
T:

Item

128 **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

F: V:
T:

Item

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129	<p>C10.2 AWARENESS WORKSHOPS</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
130	<p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
131	<p>C10.4 ACCESS TO CONDOMS</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
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C10.5 MONITORING

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

F: V:
T:

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C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT

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

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

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

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

F:..... V:.....
T:.....

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134 C11.1 NOTIFICATION OF CONSTRUCTION WORK
(Construction Regulation 3)

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

F:..... V:.....
T:.....

Item

135 C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)

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 5

F:..... V:.....
T:.....

Item

136 C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)

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

F:..... V:.....
T:.....

Item

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137 C11.4 HEALTH AND SAFETY FILE (Construction Regulation 5.7)

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

F:..... V:.....
T:.....

Item

138 C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 6)

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

F:..... V:.....
T:.....

Item

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139 C11.6 RISK ASSESSMENT AND SAFETY POLICY
(Construction Regulation 7)

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.

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 7

F:..... V:.....
T:.....

Item

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

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

F:..... V:.....
T:.....

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141	<p>C11.8 ADDITIONAL FINANCIAL PROVISION</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>F:..... V:..... T:.....</p>	Item		
142	<p>C11.9 FALL PROTECTION PLAN (Construction Regulation 8)</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>F:..... V:..... T:.....</p>	Item		
143	<p>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 8.2(b))</p> <p>The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file</p> <p>F:..... V:..... T:.....</p>	Item		
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144 C11.11 CONSTRUCTION VEHICLES AND MOBILE
PLANT (Construction Regulation 21)

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

F:..... V:.....
T:.....

Item

145 C11.12 TRAINING (Construction Regulation 8 (c))

The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall form part of the health and safety plan

F:..... V:.....
T:.....

Item

146 C11.13 DEMOLITION WORK (Construction Regulation 12)

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

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C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)

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

Department of Labour. 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

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Category : Value R

Category : Time R

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SUPPLEMENTARY PREAMBLES

STRUCTURAL WORK TO BE DEMOLISHED:

Where structures which support existing roof structures are to be demolished the contractor must provide temporary support until new supporting structures are in place.

OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR:

Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor who must allow credit for same in the Final Summary.

OLD MATERIALS TO BE CARTED AWAY:

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

OLD MATERIALS NOT TO BE RE-USED:

None of the old materials are to be used for new work except where specifically described being set aside for re-use.

HANDING OVER OF MATERIALS:

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

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DEALING WITH HAZARDOUS MATERIALS

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

ALTERATIONS AND DEMOLISHING

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

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

Site visit

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

Existing structures

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

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Existing Services

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

Dust and noise

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

Disposal of debris

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

Old materials

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

Old materials to be carted away

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

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Handing over of materials

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

Temporary support to openings through existing walls

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

Electrical And Mechanical

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

NOTE:-

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

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal on completion

1	Barrier 3000mm high separating main building from occupied buildings, formed of galvanised steel channel section rails and studs filled with minimum 12,7mm timber panels, including corners, ends, etc	m	220	
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DEVELOPMENT BANK OF SOUTH AFRICA

DEALING WITH HAZARDOUS MATERIALS

SUPPLEMENTARY PREAMBLES

REMOVAL OF EXISTING WORK

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

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

Notification of Intent and Contents of the Plan of work.

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

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

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

Respirators

Provide employees with respirators approved by the chief inspector for use when working with asbestos in a work place area not more than 100m² in size.

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Protective clothing

Suitable clothing overalls or similar full-body protective clothing with head covering and gumboots in a work place area not more than 100m2 in size.

Arrange for the disposal or laundering of protective clothing a work place area not more than 100m2 in size.

Ensure that protective clothing is removed from the premises only for laundering or disposal and then only if suitably packed in a sealed impermeable container, and that it is clearly labelled with a warning label as containing asbestos contaminated clothing in a work place area not more than 100m2 in size.

Decontamination facilities and personal hygiene.

Set-up decontamination facilities, for a work place area not more than 100m2 in size, outside the workplace for the exclusive use of employees exposed to asbestos. These facilities shall consist of a "clean" change-room, toilet/shower facilities and a "dirty" decontamination change-room with vacuum-cleaners for the preliminary de-dusting of protective clothing in a total work place area not more than 100m2 in size.

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Workplace isolation and preparation

Isolate the workplace area not more than 100m² in size for the duration of the work by completely sealing off all openings to and fixtures in the workplace, such as doors, windows, ventilation ducts and lighting. Strong plastic sheeting, with all joints carefully sealed, which is taped securely in place, provides an effective form of isolation.

Post signs in and around a work place area not more than 100m² in size conspicuously, prohibiting people from and warning them against entering the workplace.

Vacuum-clean all removable items in a work place area not more than 100m² in size and equipment that are not attached to asbestos-containing material, remove them from the workplace, and only return them to the workplace after the work has been completed and the workplace has been decontaminated.

Vacuum-clean and then cover all non-removable items and equipment in a work place area not more than 100m² in size with plastic sheeting that is taped securely in place or by other suitable means.

Remove all air filters from air-conditioners and ventilation equipment, in a work place area not more than 100m² in size, and place them in impermeable bags or similarly effective containers that are sealable for disposal (the outside of all containers shall be cleaned before leaving the workplace).

Establish emergency and fire exits in a work place area not more than 100m² in size and ensure that employees are informed of emergency procedures, which procedures shall have priority over all other procedures.

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Disposal of waste.

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

Collect asbestos section per section 100m² in size from where work is in progress and place in impermeable plastic bags or similarly effective containers. Before leaving the workplace all containers shall be cleaned on the outside and labelled, and, in the case of bags, the bag containing the waste shall be placed in another clean bag, sealed and labelled.

Place all plastic sheeting, tape, cleaning material, clothing and all other disposable items used in a work place area not more than 100m² in size into impermeable plastic bags or similarly effective containers and clean on the outside and label.

Dispose of the asbestos waste, removed from ceilings in a work place area not more than 100m² in size, only on waste disposal sites specifically designated for this purpose in terms of the Environment Conservation Act, 1989 (Act 73 of 1989) and provide disposal certificates at completion.

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

Decontamination of the workplace.

Conduct frequent air sampling throughout the entire operation to ensure that the operation does not cause a hazard inside or outside in a work place area not more than 100m² in size and provide record keeping on a daily basis.

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

2	Profiled or Asbestos roof sheeting	m2	1,615
3	Asbestos ceiling boards	m2	357
4	Asbestos ceilings in walkways	m2	63
5	Asbestos fascias and barge boards	m	411
6	Asbestos rain water goods	m	9

CLEANING FACE BRICK WORK

Cleaning face brick work

7	Prepare, scrape off all loose materials and clean existing external face brick work surfaces with pressure wash and sugar soap, including restoring and making good pointing where necessary	m2	380
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ALTERATIONS

Breaking up and removing screeds, plaster, etc

8	30mm Thick screed	m2	148
9	Plaster on walls	m2	27

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.

10	Gypsum plasterboard or fibre cement ceilings including cornices, timber banding, etc.	m2	208
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Take out and remove doors, windows, etc. including thresholds, sills, etc. and prepare opening to receive new doors, frames, windows, etc. (all elsewhere measured)

11	Timber single door not exceeding 2,5m2	No	17
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**Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL**

12	Timber skirting	m	227
	<u>Take out and remove single metal gate</u>		
13	Single metal gate	No	2
	<u>Taking out and removing glass and mirrors</u>		
14	Glass from steel windows including cleaning out rebates and preparing for new (glass elsewhere)	m2	14
	<u>Taking out and removing floor coverings</u>		
15	Take out and remove vinyl tile floor covering	m2	244
	<u>Taking out and removing sanitary fittings including piping</u>		
16	Stainless steel urinal 900mm long	No	6
17	Wash hand basin	No	4
18	Water closet and cistern	No	8
	<u>MAKING GOOD OF FINISHES, ETC.</u>		
	<u>Making good internal cement plaster</u>		
19	Chase out plaster cracks to form recess 25mm wide and 20mm deep and fill with 1:4 cement mortar, including floating up smooth to match existing.	m	165
	<u>Making good external cement plaster</u>		
20	To walls in small areas	m2	95
	<u>SERVICE EXISTING EQUIPMENT, REPAIRS, ETC.</u>		
	<u>Service existing steel windows</u>		
21	Overhaul, adjust and service to ensure proper operation existing steel window unit not exceeding 2.5m2	No	285

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DEVELOPMENT BANK OF SOUTH AFRICA

**Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL**

22	Extra on servicing existing steel window sash for supplying and replacing new brass fittings.	No	78
	<u>Service existing chalk boards</u>		
23	Overhaul, adjust and service to ensure proper operation existing writing boards approximately 2400mm wide x 1200mm high complete	No	8
	<u>TEMPORARY STRUCTURES</u>		
	<u>Supply, install, commission and remove temporary Structure</u>		
24	Supply, install, commission and remove after a period of 8 months as directed by the Principal Agent mobile classrooms, 7 x 7m internally, fully insulated and ventilated. This amount may be paid pro-rata as may be directed by the Principal Agent.	No	12
25	Supply, install, commission and remove after a period of 8 months as directed by the Principal Agent mobile toilets. This amount may be paid pro-rata as may be directed by the Principal Agent.	No	2

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<u>MASONRY</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Testing of fine aggregate</u>			
<p>Descriptions and tendered rates for testing of fine aggregate as required by the Principal Agent shall be deemed to cater for all the costs of providing samples necessary for the purpose, making, storing and sending thereof to an approved laboratory for testing, paying all charges in connection therewith and for submitting test result reports to Principal Agent</p> <p>All samples shall be labelled and the identity thereof (ie. date, strength type, position where batch was taken from relative to the building and building identity) shall be properly recorded for future reference</p>			
Carried to Collection			R
Section No. 2 Bill No. 2 MASONRY			
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Mortar test cubes

Descriptions and tendered rates for mortar strength test cubes, as required by the Principal Agent, shall be deemed to cater for all the costs of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved laboratory for testing, paying all charges in connection therewith and for submitting test result reports to Principal Agent

It will be required from the Contractor to prepare mortar strength test cubes for each building at a frequency as decided upon by the Principal Agent

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

Brickwork

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

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

Sizes in descriptions

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

Face bricks

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

Pointing

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

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MASONRY

DEVELOPMENT BANK OF SOUTH AFRICA

Samples

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

Prices

Prices for brickwork shall include for cutting , fitting and building around structural steel members

SAMPLES

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

BRICKWORK

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	110mm Brick walls in isolated areas, including toothing and bonding into existing wall	m2	55
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SUNDRIES

Brick reinforcement

2	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	165
---	--	---	-----

Prestressed fabricated concrete lintels including temporary supports

3	100mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	12
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**Kwazulu Natal Department of Education
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CWEBEZELA SENIOR PRIMARY SCHOOL**

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Item No	Quantity	Rate	Amount
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<u>BILL NO. 5</u>			
<u>WATERPROOFING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Damp-proof course to walls</u>			
All joints in damp-proof course to walls shall be lapped a minimum of 150mm except at junctions and corners where the lap should be equal the full thickness of the wall			
<u>Waterproofing</u>			
Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-down			
<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
<u>One layer of type 375 micron Consol Plastics Brikgrip DPC or equal and approved embossed damp proof course</u>			
1	In walls	m2	6
<u>"WATERPROOFING TO ROOFS, BASEMENTS, ET</u>			
Carried to Collection			R
Section No. 2 Bill No. 3 WATERPROOFING			
DEVELOPMENT BANK OF SOUTH AFRICA			

Waterproofing To Existing Metal Sheet Corrugated roof

Apply approved bitumen based waterproofing bandage in

2 Isolated areas in small quantities

m2

8

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WATERPROOFING

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WATERPROOFING

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<u>BILL NO. 6</u>			
<u>ROOF COVERINGS, ETC</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All roof coverings, etc. to be with a covering of Z275 galvanizing and shall be free of white rust. All holes to be drilled and not punched			
The contractor is to submit a certificate signed by the merchant stating that the roof covering supplied complies with the required thickness and specification			
Roof manufacturing and erection must be done by a specialist. A written 5-year guarantee certificate must be issued on completion thereof			
Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
<u>Sizes</u>			
All items are measured net unless otherwise described			
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Flashings, trimming plates, etc.

Sheet metal flashings shall have minimum 100mm laps and linings to valleys, etc minimum 225mm laps

All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable

ROOF COVERINGS ETC

PROFILED METAL SHEETING AND ACCESSORIES

Compliance documentation, etc.

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

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

- | | | | | | |
|---|--|---|-------|--|--|
| 2 | Roof covering with pitches not exceedin 25 degrees | m | 1,616 | | |
| 3 | Ridge capping 520mm girth, notched to fit ribs of roof covering and with profiled "Sondor" polyclosers on both sides | m | 174 | | |

SHEET METAL FLASHINGS, LININGS, COPINGS, ETC

0,6mm Galvanised sheet steel

- | | | | | | |
|---|---|---|----|--|--|
| 4 | Linings to valleys with riveted and sealed joints 550mm girth | m | 42 | | |
|---|---|---|----|--|--|

INSULATION

Sisalation GR420 heavy industrial grade aluminium foil based insulation

- | | | | | | |
|---|--|----|-------|--|--|
| 5 | Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with tiling battens, purlins, etc | m2 | 1,616 | | |
|---|--|----|-------|--|--|

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ROOF COVERINGS

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ROOF COVERINGS

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ROOF COVERINGS

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 7</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Timber</u>			
All softwood to be South African Pine			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
<u>Particle board</u>			
Particle board shall comply with the following specifications:			
a) SANS 1300 Particle board: exterior and flooring type			
b) SANS 1301 Particle board: interior type			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Hardwoods

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

Sealing of all abutments

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

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

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Descriptions

The term "planted on" shall mean the nailing of one timber member to another.

The term "screwed on" shall mean the countersunk screwing of one timber member to another.

The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted.

The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.

The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted.

The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting.

Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.

Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.

ROOFS, ETC

Plate nailed timber roof truss construction

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

b. Roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take rib iron roof covering purlins and fibre cement or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut

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and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions

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

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

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

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	f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR. Apply the alternative fastening methods in the above mentioned documents as follows: Use galvanized wire, bound twice at each connection to tie the purlins where the roof is covered with ceiling board. Use Hurricane clips at each connection where the roof is in the open.			
	g. Description of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc, and for any temporary bracing.			
	Rates for complete roof truss construction shall include bracings, purlins, splay cut ends, mitres, jointing, wrought and shaped ends, connections, bolts, cleats, gussets and timber connectors, hip- or valley sets and fixing in position.			
	<u>PREFABRICATED ROOF TRUSSES, ETC.</u>			
1	Allow for the issuing of all relevant roof truss design certificates as per SANS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES.		Item	
	<u>EAVES, VERGES, ETC</u>			
	<u>Sawn softwood</u>			
2	22 x 228mm Gang boarding (Provisional).	m	245	
3	38 x 114mm Longitudinal bracing (Provisional)	m	66	
4	38 x 114mm Wall plates	m	172	
	<u>Wrought softwood</u>			
5	50 x 76mm Purlins	m	68	
	<u>Sundries</u>			
6	Two coats ABE PROVONITE on exposed timbers	m ²	62	
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EAVES, VERGES, ETC

Everite medium density plain nutec-cement

7	12 x 225mm Fascia with plastic H-profile joint strips, screwed to timber with 14 x 40mm brass screws	m	290		
8	12 x 225mm Barge boards with plastic H-profile joint strips, screwed to timber with 14 x 40mm brass screws	m	121		

SKIRTINGS & BUMPRAILS

Wrought meranti

9	20 x 70mm Skirting nailed with 19mm quarter round	m	227		
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DOORS, ETC

Swartland Heavy duty solid flush doors with two concealed hardwood edge strips

10	40mm Thick hardboard heavy duty interior solid core flush door with two concealed edges, size 864 x 2032mm high	No	15		
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Swartland Gold Wrought meranti doors hung to steel frames

11	44mm Thick SD2 framed, ledged, braced and battened backply back door, size 813 x 2032mm high, sealed with a linseed oil based transit stabilizing sealer	No	2		
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<u>SECTION NO. 2</u>			
<u>BILL NO. 8</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete at not exceeding 600 mm centres, and where described as "bolted" the bolts have been given elsewhere			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
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Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Finishes to suspended ceilings

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

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

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

NAILED UP CEILINGS

Sawn softwood

1	38 x 76mm Runners (Provisional)	m	80
2	38 x 114mm Ceiling joists (Provisional)	m	16
3	38 x 38mm Hangers (Provisional)	m	220

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	<u>9mm "Rhinoboard" plain ceiling boards with H- section metal cover strips over joints</u>				
4	Horizontal ceilings, including 38 x 50mm sawn softwood bandering at 450mm centres.	m2	419		
5	Extra over ceiling for opening for 680 x 696 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	m	6		
	<u>4mm Fibre cement ceiling boards with H-section</u>				
6	Horizontal ceilings, including 38 x 50mm sawn softwood bandering at 450mm centres	m2	24		
	<u>Wrought meranti</u>				
7	<u>32 x 69mm Rebated cornice nailed</u>	m	38		
	<u>CEILING INSULATION</u>				
	<u>Approved 80mm thick flexible non-combustible mineral wool insulation</u>				
8	"Isotherm" or similar approved 80mm Insulation laid loose on ceiling with closely butted joints and ends	m2	1,881		
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<u>SECTION NO. 2</u>			
<u>BILL NO. 9</u>			
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
NOTE : All materials shall be in colours to be selected by the Architect and, where applicable, laid to approved patterns			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Floor coverings, wall linings, etc.</u>			
Prices to include for any self-levelling compound that may be needed by the firm of specialists to level out uneven screeds			
<u>Sealing of joints</u>			
All open joints between floor covering members, i.e. between corner protectors and wall linings, skirtings and floor coverings/wall linings, etc. to be properly sealed with silicone sealant of an approved colour			
Tendered rates must made provision for this as no additional claims in this regards will afterwards be entertained			
<u>FLOOR COVERINGS</u>			
<u>300 x 300 x 2mm Fully-flexible "Floorworx Superflex" vinyl tile.</u>			
1	On screeded floors	m2	24
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Sundries

POLISH, SEALERS, ETC

2	Two coats approved terpolymer floor sealer on vinyl flooring	m2	24
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	<u>"Franke"or similar approved by the Architect</u>				
8	Stainless steel mirror (code: CHRH 401) with high polish finish, size 300 x 400mm including four drillings for fixing to wall with mirror screws	No	6		
9	Surface mounted toilet roll holder (code: STRX 671) with satin finish and cylinder lock	No	16		
10	Surface mounted paper towel dispenser (code: STRX 600) with satin finish and cylinder lock.	No	4		
11	Surface mounted soap dispenser (code: STRX 618) with satin finish and cylinder lock.	No	4		
	<u>SUNDRIES</u>				
	<u>"Union"or similar approved by the Architect</u>				
12	AL8253AS Hat, coat and robe hook	No	4		
13	AL8730AS Aluminium door stop	No	17		
	<u>"Cecil Nurse"or similar approved by the Architect</u>				
14	Mild steel key box for 100 keys, with epoxy powder coating	No	1		
	<u>Buchels medicine safes (supplier : Buildware tel. 031 332 5764)</u>				
15	No. 45 Code 00730800 wall unit 380 x 360 x 610mm high	No	1		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
	<u>"Vitrex" Series 2109 or similar approved by the Architect</u> <u>Wall mounted pinning board</u>				
16	Code 2109 pinning board 4800 x 1200mm high	No	8		
17	Code 2109 pinning board 1200 x 1200mm high	No	2		
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IRONMONGERY

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<u>SECTION NO. 2</u>			
<u>BILL NO. 12</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Primer</u>			
All surfaces of steelwork cleaned and prepared by wire brushing in accordance with SANS 10064 and all surfaces shall be painted with approved factory etch primer to a minimum dry film thickness of 30 micrometres before leaving the workshop of the manufacturer			
All scratches, chips or blemishes to be made good on site after erection			
All rates tendered must make provision for this as no claim will afterwards be entertained.			
<u>Descriptions</u>			
No allowance has been made in the mass of steel for rolling margins, rivets, additional materials in welding, decorative or protective treatment nor constructional aids			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
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Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Welded joints and intersections

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

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

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

Screws and bolts

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

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

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

Door frames

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

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

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Striking plates for door frames

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

Burglar bars to steel windows

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

Furniture to steel windows

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

Sealing of all abutments

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

GALVANIZED STEEL GATES, SCREENS, ETC

Welded gates, screens, etc.

- | | | | |
|---|--|----|---|
| 1 | Galvanised single mild steel gates size 900 x 2100mm high of 40 x 60 x 3mm hollow section frame and two 40 x 6mm flat section middle rails holed for five 19mm diameter solid metal rods to pass through and welded to gate frame with one upright double throw security mortice deadlock in steel plate housing with cover plate etc, gate fixed to 40 x 60 x 3mm hollow section frame fitted with three pin hinges, bottoms welded to frame and tops welded to gate, frame holed for and fitted with eight 90mm long rawl bolts. | No | 3 |
|---|--|----|---|

- | | | | |
|---|--|----|----|
| 2 | 25 x 15mm Standard burglar bars to window not exceeding 2m2. | No | 12 |
|---|--|----|----|

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<u>BILL NO. 13</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SCREEDS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preparatory work</u>			
Surfaces shall be clean and free from oil and thoroughly wetted directly before any plastering or other in-situ finishes are commenced. Concrete surfaces shall be slushed with a mixture of one part cement and one part coarse sand or otherwise treated to form a proper key. Preparatory coats shall be thoroughly scored and roughened to form a proper key			
<u>Finish</u>			
All coats of paving and plastering shall be executed in one operation without any blemishes			
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Granolithic

Granolithic shall be cured for at least seven days after laying

Coloured granolithic shall be carried out in two coats in one operation and shall be tinted to the required colour with approved colouring pigment mixed into the finishing coat. Under no circumstances is the pigment to be sprinkled on and trowelled in after the granolithic is laid

Granolithic shall be divided into panels not exceeding 6m² with V-joints and deep trowel cuts

Granolithic to stairs shall include non-slip reedings to treads

Skirtings

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

Plaster

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

General

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

Textured finishes

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

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Preparatory work for textured finishes

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

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

SCREEDS

Screeds on concrete in class 2, strength category C

1	30mm Thick on floors and landings	m2	80	
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INTERNAL PLASTER

One coat (1:5) cement plaster on brickwork

2	On walls in patches	m2	12	
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3	On walls	m2	15	
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4	On narrow widths	m2	4	
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EXTERNAL PLASTER

Cement plaster on brickwork

5	On walls	m2	12	
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6	On narrow widths	m2	2	
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 14</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>Prices</u>			
Prices are to include for all cutting and waste, cleaning off upon completion and protection from damages. Areas are measured net to face of bare brickwork and concrete. Any additional area caused by the thickness of tiling and screed are to be allowed for in prices			
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General

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

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

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

WALL TILING

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

1	On walls in isolated panels, splashbacks, etc	m2	32	
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FLOOR TILING

300 x 300 x 10mm Slip Free unglazed porcelain floor tiles on 10mm bedding on concrete and flush pointed with tinted waterproof jointing compound (plaster elsewhere)

2	On floors and landings	m2	16	
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 15</u></p> <p><u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Regulations</u></p> <p>All drainage and sanitary work shall be executed in accordance with the regulations of the Local Authority. Only registered plumbers and drainlayers shall be employed on any plumbing and drainage work on this contract</p>			
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<p>Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTH AFRICA</p>			

Prices

Prices must include for arranging joints at convenient points, embedding in concrete or for rough cutting around brickwork as the work proceeds

No distinction has been made between pipes chased in walls, fixed in ceilings, roofs, floors, columns, slabs, etc or for different finishes to these elements and has been dedcribed as "pipes".

Prices shall therefore include for all holderbats, brackets, clips, bands, etc and building in or chasing of same, holes through brickwork, concrete, etc and for making good facings, plaster, granolithic and other in- situ finishes as necessary

Prices to fixing of sanitary fittings etc shall include for setting up and fixing in position as described, joints to soil, waste and supply pipes as the case may be, making good finishes around and for protecting fittings from injury during subsequent building operations

Concrete pipes

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

uPVC 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

uPVC pressure pipes and fittings

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

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PLUMBING AND DRAINAGE

DEVELOPMENT BANK OF SOUTH AFRICA

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

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin 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

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"

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Laying, backfilling, bedding, etc of pipes

Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : 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

Testing

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

RAINWATER DISPOSAL

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

1	125 x 85mm Eaves gutters	m	312		
2	Extra over eaves gutter for outlet for 75 x 100mm rainwater pipe.	No	36		
3	Extra for stopped end	No	36		
4	75 x 100mm Fluted rainwater pipes in continuous lengths	m	108		
5	Extra over rainwater pipe for bend	No	12		
6	Extra over rainwater pipe for shoe	No	12		
7	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection.	No	12		

RAINWATER STORAGE

"RotoTanks" or similar approved polyethylene storage tank

8	5000 Litre storage tank on 2300 x 2300 x 500mm high above ground plinths of concrete and brick and including tap and spilling basin. Tank secured tight to plinth.	No	2		
---	--	----	---	--	--

SOIL DRAINAGE

uPVC pipes for underground installations

9	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	6		
10	110mm Pipes in and including trenches not exceeding 1m deep	m	36		
11	110mm Pipes in and including trenches exceeding 1m and not exceeding 2m deep	m			

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	<u>"Cobra Watertech" or other equal and approved</u>				
26	40mm 345 CP bottle trap.	No	8		
	<u>Brass:</u>				
27	15mm Stopcock	No	15		
28	20mm Fullway gate valve	No	4		
	<u>"Cobra" Watertech</u>				
29	15mm 232-10CP angle regulating valve	No			
30	15mm Chrome plated pillar tap	No	16		
31	15mm Chrome plated pillar tap with elbow action lever	No	4		
32	15mm FJ6.000CP Flushmaster Junior urinal flushvalve exposed type, with integral ballstop valve and wallplate complete	No	8		
33	15mm "Broen" chrome plated laboratory sink mixer with air-rated swivel spout and concealed connections	No	1		
34	15mm "Star" chrome plated sink mixer with air-rated swivel spout and concealed connections	No	1		
	<u>WASTES AND VENTS</u>				
	<u>uPVC soil and vent pipes</u>				
35	40mm Pipe fixed in walls, ceilings, roofs, floors, etc or laid in filling	m	32		
	<u>Extra over 40mm uPVC pipe for</u>				
36	Bend	No	14		
37	Access bend	No	8		
38	Bend with cleaning eye	No	6		
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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 17</u>			
<u>PAINTING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
Carried to Collection			
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DEVELOPMENT BANK OF SOUTH AFRICA			

PREPARATORY WORK TO EXISTING SURFACES

Previously painted plastered surfaces

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

Previously painted metal surfaces

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

Previously painted wood surfaces

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

PAINT ON PLASTER, ETC

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

1	On existing internal floated plaster walls	m2	2,191
2	On plastered ceilings	m2	
3	On external walls	m2	46

ON METAL

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	<u>Wire brush, wash down with "Polycell Sugar Soap" or weak spirits of salts, rinse, repair plastered surface and apply one coat "Plascon Plaster Primer" and two coats "Plascon Micatex" (Provisional)</u> <u>Remove surface contaminants with "Polycell Sugar Soap" and apply one coat "Plascon Universal Undercoat" to bare and repaired areas, prime with one coat "Plascon Multisurface Primer" and finish with two coats "Plascon Enamel"</u>				
4	On windows with burglar bars (both sides measured)	m2			
	<u>ON METAL</u>				
	<u>Remove surface contaminants with "Polycell Sugar Soap" and apply one coat "Plascon Universal Undercoat" to bare and repaired areas, prime with one coat "Plascon Multisurface Primer" and finish with two coats "Plascon Velvagio Satin"</u>				
5	On steel windows	m2	452		
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	101		
	<u>One coat "Galvogrip metal primer", One Universal undercoat and Two coats "Plascon Enamel"</u>				
7	On door frames	m2	97		
	<u>Clean down and prime exposed roof with undercoat and colour Red Rock.</u>				
8	On existing metal roof sheeting	m2	232		
	<u>PLASTER BOARD SURFACES WITH</u>				
	<u>One coat alkali resistant plaster primer and two coats Plascon Wall & All (WAA) on</u>				
9	On ceilings and beams	m2	419		
	<u>ON FIBRE-CEMENT</u>				
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	<u>One coat "Plascon Plaster Primer" and two coats "Plascon Polvin Super Acrylic"</u>				
10	On fascias and barge boards	m2	189		
11	On ceilings	m2	24		
	<u>WOOD SURFACES WITH</u>				
	<u>One coat primer, one undercoat and one finishing coat of</u>				
12	Existing exposed roof trusses	m2	70		
	<u>PAINTWORK, ETC TO NEW WORK</u>				
	<u>ON FLOATED PLASTER SURFACES WITH</u>				
	<u>One coat "Plascon Plaster Primer" and two coats "Plascon Velvagio Satin"</u>				
13	On internal walls	m	32		
	<u>WOOD SURFACES WITH</u>				
	<u>Three coats "Swartland Maxicare" timber sealant</u>				
14	On new doors	m2	68		
15	On existing doors	m2	226		
	<u>Surface to be dry, sound and clean and apply one coat "Plascon Woodcare Pre-treatment" and two coats "Plascon Woodcare Interior Water Based Wood Varnish"</u>				
16	Skirtings, cornices, rails, etc not exceeding 300 mm girth	m	227		
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2	MASONRY	68	
3	WATERPROOFING	71	
4	ROOF COVERINGS	74	
5	CARPENTRY & JOINERY	81	
6	CEILINGS, PARTITIONS AND ACCESS FLOORING	85	
7	FLOOR COVERINGS	88	
8	IRONMONGERY	93	
9	METALWORK	97	
10	PLASTERING	101	
11	TILING	104	
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<u>SECTION NO. 3</u>			
<u>BILL NO. 1</u>			
<u>ELECTRICAL PRELIMINARY and GENERAL</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Specification and drawings</u>			
Tenderers are referred to the Electrical Specification and drawings annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc			
<u>Distribution boards etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
<u>Switches, socket outlets, etc</u>			
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
<u>Light fittings</u>			
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
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Section No. 3 Bill No. 1 ELECTRICAL PRELIMINARY and GENERAL DEVELOPMENT BANK OF SOUTH AFRICA			

Certificates of Compliance

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

PRELIMINARY AND GENERAL

In accordance with the Conditions of Contract; Provide for all expenses, obligations and general items pertaining to such conditions and all items not specifically specified or mentioned to enable the works to be completed in a satisfactory manner.

1 Fixed Portion

Item

2 Portion variable with Contract Price

Item

This is a Fixed Price - no escalation Contract.
Due allowance must be made for any possible
Material and Labor escalations and cost
increases

3 Portion variable with Contract Time

Item

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ELECTRICAL PRELIMINARY and GENERAL

DEVELOPMENT BANK OF SOUTH AFRICA

CONDITIONS TO CONSIDER IN PRICING

The rates shall include for the supply and installation of all items - except where indicated different - VAT Excl. -

Actual quantities and lengths shall be verified on site before any order is placed.

The alterations will be done within a fully functional school, and all work shall be executed with the least amount of disruptions to the classs, access, dust, noise, etc.

Additional General items
to be provided in terms of the contract and specifications.

4 Shop drawings, Submissions & Approvals

Item

5 Submission of samples

Item

Project Implementation - Start - Detailed CoC Investigation of each Block

The Contactor shall investigate each block and produce a comprehensive, detailed report indication the defects found and the action(s) required to achieve compliance with the Wiring Code, SANS 10142 Part 1, to be able to issue a CoC

6 Block 1 to 8

No

8

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Bill No. 1

ELECTRICAL PRELIMINARY and GENERAL

DEVELOPMENT BANK OF SOUTH AFRICA

Project Completion - Close out - ISSUE the following CoC

The Contactor certify compliance with the Wiring Code, SANS 10142 Part 1, and issue a CoC

7	Block 1 to 8	No	8
8	Allow for documentation regarding all inspections, testing, commissioning and handing over the complete installation, and the actual (original) Certificates of Compliance.		Item
9	Guarantee and Maintenance of the Electrical installation for full 12 months.		Item

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<u>BILL NO. 2</u>			
<u>ELECTRICAL CABLING and EXCAVATIONS</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
NOTE:			
<i>i) Samples to be provided and approved before any order is placed.</i>			
<i>ii) Actual quantities shall be verified on site before any order is placed.</i>			
Project Implementation - Start - Detailed CoC Investigation of each Block			
Refer to Bill 1			
<u>SITE RETICUALTION CABLES</u>			
<u>600/1000V PVAC/SWA/PVC "Red Stripe"</u>			
1	Cable: 10mm ² x 3-Core Cu (Provisional) - Supply	m	2
2	Cable: 10mm ² x 3-Core Cu (Provisional) - Install	m	2
3	Cable: 16mm ² x 3-Core Cu (Provisional) - Supply	m	383
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4	Cable: 16mm ² x 3-Core Cu (Provisional) - Install	m	383	
5	Cable: 35mm ² x 4-Core Cu (Provisional) + 25mm ² BCEW - Supply	m	30	
6	Cable: 35mm ² x 4-Core Cu (Provisional) + 25mm ² BCEW - Install	m	30	
<u>CABLE TERMINATIONS</u>				
7	Cable: 10mm ² x 3-Core Cu (Provisional) - Supply	No	2	
8	Cable: 10mm ² x 3-Core Cu (Provisional) - Install	No	2	
9	Cable: 16mm ² x 3-Core Cu (Provisional) - Supply	No	14	
10	Cable: 16mm ² x 3-Core Cu (Provisional) - Install	No	14	
11	Cable: 35mm ² x 4-Core Cu (Provisional) + 25mm ² BCEW - Supply	No	2	
12	Cable: 35mm ² x 4-Core Cu (Provisional) + 25mm ² BCEW - Install	No	2	
<u>CABLE TRENCHING</u>				
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	<u>800mm deep x 300mm wide cable trench</u>				
	<u>NOTE: The unit of measure for the excavation of a cable trench is linear meter (not cubic meter) and no payment shall be made for excessively wide or deep excavations</u>				
13	Normal / Pickable Soil	m	415		
14	Bedding	m3	12		
15	Blanketing	m3	12		
16	Backfilling	m	415		
17	Removal of spoil	m3	25		
	<u>SLEEVES</u>				
	<u>Galvanized steel pipe for cable protection ("kick pipes") complete with and galvanized steel saddles at 1m intervals mounted to the structure with M8 "Rawl" Bolts</u>				
18	50mm Ø galvanized steel pipe - Supply	m	15		
19	50mm Ø galvanized steel pipe - Install	m	15		
	<u>DANGER TAPE</u>				
20	"Caution – Electric Cable Below" tape 150mm wide, ≥100µm thick - Supply	m	415		
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21	"Caution – Electric Cable Below" tape 150mm wide, ≥100µm thick - Install	m	415		
	<u>POLE EXCAVATIONS</u> <u>NOTE: The unit of measure for the excavation is "per pole" (not cubic meters) no payment shall be made for excisive excavations</u> <u>800mm deep hole for post top pole installation</u>				
22	Normal	No	1		
23	Backfilling	No	1		
	<u>General purpose (GP) wire,</u> <u>All colours: Red / black / blue / white / yellow & green. Price</u> <u>Wiring is included in the equipment rates. Only for use</u> <u>the Engineer.</u>				
24	2.5mm² General purpose (GP) wire - Supply	m	100		
25	2.5mm² General purpose (GP) wire - Install	m	100		
26	4mm² General purpose (GP) wire - Supply	m	100		
27	4mm² General purpose (GP) wire - Install	m	100		
28	6mm² General purpose (GP) wire - Supply	m	100		
29	6mm² General purpose (GP) wire - Install	m	100		
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<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>BILL 3 - ELECTRICAL LIGHT SWITCHES, SOCKET OUTLETS, ISOLATORS, and PHOTO CELL/DAYLIGHT SWITCHES</u></p> <p><i>NOT E</i></p> <p><i>i) Samples to be provided and approved before any order is placed.</i></p> <p><i>ii) Actual quantities shall be verified on site before any order is placed.</i></p> <p><u>LIGHT SWITCHES</u></p> <p><u>Technical requirement Paragraph 3.1</u></p> <p><u>Fitted in existing box complete with new steel cover</u></p>			
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<p>Section No. 3</p> <p>Bill No. 3</p> <p>ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATOR</p> <p>DEVELOPMENT BANK OF SOUTH AFRICA</p>			

Direct replacement of existing light switch (no wiring changes) and re-connecting the existing wiring

- 1 One-lever one-way switch as specified and re-connecting the existing wiring - Supply



No

2

- 2 One-lever one-way switch as specified and re-connecting the existing wiring - Install

No

2

Replacement of existing light switch including new wiring and new surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring



- 3 One-lever one-way switch, PVC Conduit, as specified and connecting the wiring - Supply

No

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ELECTRICAL LIGHT SWITCHES, SOCKETS, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

- | | | | | | |
|---|--|----|----|--|--|
| 4 | One-lever one-way switch, PVC Conduit, as specified and connecting the wiring - Install | No | 36 | | |
| 5 | One-lever one-way switch, galvanized steel Conduit, as specified and connecting the wiring - Supply | No | 8 | | |
| 6 | One-lever one-way switch, galvanized steel Conduit, as specified and connecting the wiring - Install | No | 8 | | |
| 7 | Two-lever one-way switch as specified and connecting the wiring - Supply | | | | |



- | | | | | | |
|---|---|----|---|--|--|
| 8 | Two-lever one-way switch as specified and connecting the wiring - Install | No | 8 | | |
|---|---|----|---|--|--|

SWITCHED SOCKET OUTLETS (SSO) and ISOLATORS (Isol)

Technical requirement Paragraph 3.2
Fitted in existing box complete with new steel cover

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ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

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Replacement of existing Switched Socket Outlet(s) including wiring and surface mounted conduit. New 4mm² Cu wiring, new 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking connecting wiring

- 9 Double switched socket outlet (DSSO) SANS 164-1 and and connecting the wiring
In the documents this is referred to as a "Traditional 16A socket outlets" - Supply



No 8

- 10 Double switched socket outlet (DSSO) SANS 164-1 and and connecting the wiring
In the documents this is referred to as a "Traditional 16A socket outlets" - Install

No 8

- 11 Double switched socket outlet (DSSO) 1x SANS 164-1 and 1x SANS 164-2 (New SA outlet) and connecting the wiring.
In the documents this is referred to as a "Traditional 16A socket outlet" and New SA outlet" - Supply



No 30

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ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

12	<p>Double switched socket outlet (DSSO) 1x SANS 164-1 and 1x SANS 164-2 (New SA outlet) and connecting the wiring.</p> <p>In the documents this is referred to as a "Traditional 16A socket outlet" and New SA outlet" - Install</p> <p style="text-align: right;">No 30</p> <p><u>Replacement of existing Isolator including wiring and surface mounted conduit. 4mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring</u></p> <p><u>PHOTO (LIGHT) SENSITIVE DAY/NIGHT</u> <u>Technical requirement Paragraph 3.2</u> <u>NOTE: Photocell complete with NEMA base.</u> <u>Base suitable to be wall mounted</u></p> 				
13	<p>Photo (light) sensitive Day/Night switch as specified, including 2.5mm² Cu wiring and connecting the wiring between DB and lights - Supply</p> <p style="text-align: right;">No 10</p>				
14	<p>Photo (light) sensitive Day/Night switch as specified, including 2.5mm² Cu wiring and connecting the wiring between DB and lights - Install</p> <p style="text-align: right;">No 10</p>				

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ELECTRICAL LIGHT SWITCHES, SOCKETS, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

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Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL**

15	Photo (light) sensitive Day/Night switch as specified, including wiring and surface mounted conduit. 2.5mm ² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring between DB and lights - Supply	No	7
16	Photo (light) sensitive Day/Night switch as specified, including wiring and surface mounted conduit. 2.5mm ² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring between DB and lights - Install	No	7
	<p>POWER SKIRT <u>Technical requirement Paragraph 3.5</u> <u>2-cover-3-compartment power skirting complete with covers, and cover plates for socket outlets, RJ45, and RJ11 outlets. The bottom at 300mm above floor level, measured to the bottom of the power skirt, complete with conduit links. The technical specification details the outlets which must be included in the supply and installation</u></p>		
17	Power skirting - Supply	m	6
18	Power skirting - Install	m	6

Carried to Collection

R

Section No. 3

Bill No. 3

ELECTRICAL LIGHT SWITCHES, SOCKETS, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL

Section No. 3

Bill No. 3

ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATORS, etc

COLLECTION

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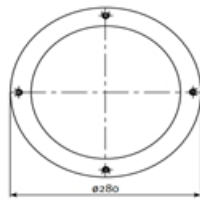
Bill No. 3

ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATOR

DEVELOPMENT BANK OF SOUTH AFRICA

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>LIGHT FITTINGS, LAMPS, and FANS</u></p> <p>NO</p> <p>TE</p> <p><i>i) Samples to be provided and approved before any order is placed.</i></p> <p><i>ii) Actual quantities shall be verified on site before any order is placed.</i></p> <p><u>LIGHT FITTINGS</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3</p> <p>Bill No. 4</p> <p>ELECTRICAL LIGHT FITTINGS, LAMPS and FANS</p> <p>DEVELOPMENT BANK OF SOUTH AFRICA</p>			

Type F1 -White round surface mounted light fitting with cast aluminium base with round bulkhead light fitting, complete with LED 9W / $\pm 1\ 900$ Lumen, LED colour 4 000K (Neutral white 840), CRI (Ra) ≥ 80 , Luminaire efficacy shall exceed 105 lm / W, LED and Driver Lifespan 50 000 hours a matt polycarbonate diffuser. Complete with silicone gasket in groove, and lamps. Colour of the decorative trim ring shall be "White". The fitting shall have a power factor of at least 0.95. 230V 50Hz. Similar to the illustrations



1 Supply, complete with lamps

No

52

2 Install, including wiring and surface mounted conduit. New 2.5mm² Cu wiring, New 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring

No

52

Carried to Collection

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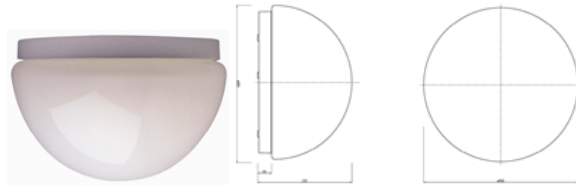
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ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

Type F2 - White round surface mounted light fitting with cast aluminium base with round bulkhead light fitting, complete with LED 9W / $\pm 1\ 900$ Lumen, LED colour 4 000K (Neutral white 840), CRI (Ra) ≥ 80 , Luminaire efficacy shall exceed 105 lm / W, LED and Driver Lifespan 50 000 hours a matt polycarbonate diffuser. Complete with silicone gasket in groove, and lamps. Colour of the base shall be "White". The fitting shall have a power factor of at least 0.95. 230V 50Hz. Similar to the illustrations



3 Supply, complete with lamps

No

14

4 Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring

No

14

Type F2B - Indoor bulkhead light fitting complete with 1x 000 Lumen, $\pm 200^\circ$ Beam, LED colour 4 000K (Neutral white) efficacy shall exceed 105 lm / W, LED and Driver Lifespan

Similar to the illustrations



5 Supply, complete with lamps

No

3

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Bill No. 4

ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

6	<p>Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring</p> <p style="text-align: right;">No</p> <p>3</p> <p><u>Type F3 - Surface mounted 1,2 m – (1200mm 1x LED Open Channel fitting) complete with 1x LED “1200mm tube”, , each LED “Tube” shall comply with the following: colour 4 000K (Neutral white 840), CRI (Ra) ≥80, Luminaire efficacy shall exceed 105 lm / W, LED and Driver Lifespan 50 000 hours luminaire consisting of a ventilated, enclosed channel body. The body channel shall incorporate a removable cover acting as a reflector, less than 0,8 mm thick, designed and mounted to completely cover the interior of the body channel and its contents and extending over the full length of the luminaire up to the lamp holders. The electronic ballast approved. The fitting shall have a power factor of at least</u></p> <p><u>Provide 20mm diameter entries at each end of the fitting shall be heat resistant with 105°C 600 V insulation. PF ≥0.</u></p> <p><u>Similar to the illustration</u></p> 				
7	<p>Supply, complete with lamps</p> <p style="text-align: right;">No</p> <p>8</p>				
8	<p>Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring</p> <p style="text-align: right;">No</p> <p>8</p>				

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ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

Type F4 - Refer to Type F3 With 1,2 m – (1200mm 2x LED Open Channel fitting) complete with 2x LED “1200mm tubes”.

Similar to the illustration



9 Supply, complete with lamps

No

74

10 Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring

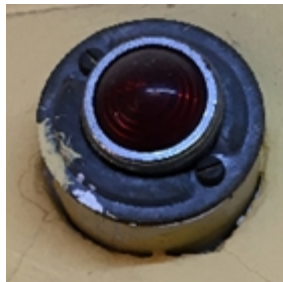
No

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Type F7 Safe in Use Warning / Pilot Light

The Contractor shall propose a suitable high efficiency LED luminaire, complete with 2-spare LED “lamps” which shall completion of the project as “Maintenance Spares”. The LED excess of 15 000hours. No fitting with separate contingency. Colour shall be RED.

Below is a image of an existing indication light, a bulhead red) is also a possibility



11 Supply, complete with lamps

No

1

Carried to Collection

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ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

12 Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring

No

1

Type F9 - Moisture proof light fitting

Surface mounted weatherproof 1,2 m – (1200mm 2x LED tube”, each LED “Tube” shall comply with the following: 15 colour 4 000K (Neutral white 840), CRI (Ra) ≥80, Luminair LED and Driver Lifespan 50 000 hours . The internal wiring V insulation. Provide 20mm diameter entries at each end internal wiring shall be heat resistant with 105°C 600 V ins the illustration at bottom of this page

13 Supply, complete with lamps

No

1

14 Install, including wiring and surface mounted conduit. 2.5mm² Cu wiring, 25mm Ø conduit complete with all fittings, elbows, draw boxes, switch box, installed in trunking and connecting the wiring

No

1

Carried to Collection

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Bill No. 4

ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

Section No. 3

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ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

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Bill No. 4

ELECTRICAL LIGHT FITTINGS, LAMPS and FANS

DEVELOPMENT BANK OF SOUTH AFRICA

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 5</u></p> <p><u>DISTRIBUTION BOARDS and CoC's</u></p> <p>NO</p> <p>TE</p> <p><i>i) Samples to be provided and approved before any order is placed.</i></p> <p><i>ii) Actual quantities shall be verified on site before any order is placed.</i></p> <p><u>DISTRIBUTION BOARDS</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3</p> <p>Bill No. 5</p> <p>ELECTRICAL DISTRIBUTION BOARDS and COC's</p> <p>DEVELOPMENT BANK OF SOUTH AFRICA</p>			

DB:C - Block 1

· Replace DB

- o Supplied from DB Block 2
- o Supply: Cable 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 30A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs) L+N with indication
- o 1x 15A, 5kA, 1-pole CB "Plugs"
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· New printed/typed legend

· CoC

1 Supply

No

1

2 Install

No

1

Carried to Collection

R

Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

- Replace DB
- Required equipment
 - o 1x 60A, 5kA, 3-pole CB "Mains"
 - o 1x 63A, L+N ELU 3kA "ELU"
 - o 1x Class II Surge protection, 275V, 10kA (8/20µs) L+N with indication
 - o 2x 20A, 5kA, 1-pole CB "Plugs"
 - o 4x 10A, 5kA, 1-pole CB "Lights"
 - o 1x 5A, 5kA, 1-pole CB
 - o 1x 10A, 5kA, 1-pole CB "Outside Lights"
 - o 3x 60A, 5kA, 2-pole CB
 - o 2x 30A, 5kA, 2-pole CB
 - o Escutcheon fillers
 - o Door / Cover
- Identify and Label Circuits
- Labelling
 - o DB Name
 - o Supply from
 - o Supply cable size
 - o Fault level
 - o Outgoing Circuits
- New printed/typed legend
- CoC

3 Supply

No

1

4 Install

No

1

Carried to Collection

R

Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB Block 3

- Replace Surface Mounted DB
 - o Supplied from DB Block 2
 - o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)
- Required equipment
 - o 1x 40A, 5kA, 3-pole CB "Mains"
 - o 1x 63A, L+N ELU 3kA "ELU"
 - o 1x Class II Surge protection, 275V, 10kA (8/20μs) L+N with indication
 - o 1x 20A, 5kA, 1-pole CB "Plugs"
 - o 1x 10A, 5kA, 1-pole CB "Lights"
 - o 1x 10A, 5kA, 1-pole CB "Outside Lights"
 - o Escutcheon fillers
 - o Door / Cover
- Identify and Label Circuits
- Labelling
 - o DB Name
 - o Supply from
 - o Supply cable size
 - o Fault level
 - o Outgoing Circuits
- New printed/typed legend
- CoC

5	Supply	No	1
6	Install	No	1

Carried to Collection

R

Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: Block 4

· Replace DB

- o Supplied from DB Block 2
- o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 60A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs)
L+N with indication
- o 2x 20A, 5kA, 1-pole CB "Plugs"
- o 2x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

7	Supply	No	1
8	Install	No	1

Carried to Collection

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Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: Block 5

· Replace DB

- o Supplied from DB Block 2
- o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 60A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs)
- o L+N with indication
- o 2x 20A, 5kA, 1-pole CB "Plugs"
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

9	Supply	No	1
10	Install	No	1

Carried to Collection

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Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: Block 6

· Replace DB

- o Supplied from DB Block 2
- o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 60A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs)
- o L+N with indication
- o 2x 20A, 5kA, 1-pole CB "Plugs"
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

11 Supply

No

1

12 Install

No

1

Carried to Collection

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Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: block 6

- Replace escutcheon plate ±500mm x 250mm
- Clean DB
- Install new CB equipment
 - o 1x 40A, 5kA, 2-pole CB
 - o 1x 40A, L+N ELU 3kA
- o 1x Class II Surge protection, 275V, 10kA (8/20µs) L+N with indication
- o 2x 20A, 5kA, 1-pole CB
- o 2x 10A, 5kA, 1-pole CB
- o Escutcheon fillers
- Replace DB internal wiring
- Rewire DB
- Identify Circuits
- New labelling
 - o DB Name
 - o Supply from
 - o Supply cable size
 - o Fault level
 - o Outgoing Circuits
- New printed/taped legend
- CoC

13	Supply	No	1
14	Install	No	1

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Section No. 3
Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: block 7

· Replace DB

- o Supplied from DB Block 2
- o Supply: 6mm² 3c Cu PVC/SWA/PVC (L+N+PE)

· Required equipment

- o 1x 30A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20µs)
- L+N with indication
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

15	Supply	No	1
16	Install	No	1

Carried to Collection

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Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: block 8

· Replace DB

- o Supplied from DB Block 2
- o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 60A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs)
- o L+N with indication
- o 2x 20A, 5kA, 1-pole CB "Plugs"
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

17	Supply	No	1
18	Install	No	1

Carried to Collection

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Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: block 9

· Replace DB

- o Supplied from DB Block 2
- o Supply: 16mm² 3c Cu PVC/SWA/PVC (L1+N+PE)

· Required equipment

- o 1x 60A, 5kA, 2-pole CB "Mains"
- o 1x 63A, L+N ELU 3kA "ELU"
- o 1x Class II Surge protection, 275V, 10kA (8/20μs)
- o L+N with indication
- o 2x 20A, 5kA, 1-pole CB "Plugs"
- o 1x 10A, 5kA, 1-pole CB "Lights"
- o 1x 10A, 5kA, 1-pole CB "Outside Lights"
- o Escutcheon fillers
- o Door / Cover

· Identify and Label Circuits

· Labelling

- o DB Name
- o Supply from
- o Supply cable size
- o Fault level
- o Outgoing Circuits

· Printed/typed legend

· CoC

19	Supply	No	1
20	Install	No	1

Carried to Collection

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Section No. 3

Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

- DB: block 10
- Replace DB
 - o Supplied from DB Utility
 - o Supply: Cable 3x 6mm² 1c Cu PVC GP (L+N+PE)
 - Required equipment
 - o 1x 20A, 10kA, 2-pole CB "Mains"
 - o 1x 63A, L+N ELU 3kA "ELU"
 - o 1x Class II Surge protection, 275V, 10kA (8/20μs)
 - o L+N with indication
 - o 1x 15A, 5kA, 1-pole CB "Plugs"
 - o 1x 10A, 5kA, 1-pole CB "Lights"
 - o 1x 10A, 5kA, 1-pole CB "Outside Lights"
 - o Escutcheon fillers
 - o Door / Cover
 - Identify and Label Circuits
 - Labelling
 - o DB Name
 - o Supply from
 - o Supply cable size
 - o Fault level
 - o Outgoing Circuits
 - Printed/typed legend
 - CoC

21	Supply	No	1
22	Install	No	1

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Section No. 3
Bill No. 5

ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

DB: Block Utility DB

· Replace DB

o Outdoor, wall mounted, with padlock able doors, weat proof lock covers, mounted in full sun, colour "Grey"

o Supplied from Utility

o Cable entry and exit: Bottom

o Feeder Cables:

§ Supply: 35mm² 4c Cu PVC/SWA/PVC + 25mm² black (L1/2/3+N+PE)

§ Feeder 1 (Block 2): 35mm² 4c Cu PVC/SWA/PVC+ insulated EW (L1/2/3+N+PE)

§ Feeder 2 (Block 1: Guard House): 3x 6mm² 1c Cu

· Required equipment

o 1x 80A, 15kA, 3-pole CB "Mains"

o 1x Class II Surge protection, 275V, 10kA (8/20µs) L1/ indication

o 80A, 10kA, 3-pole CB "Supply to DB Block 2"

o 30A, 10kA, 2-pole CB "Supply to DB Block 1: Guard

o Escutcheon fillers

o Door / Cover

· Identify and Label Circuits

· Labelling

o DB Name

o Supply from

o Supply cable size

o Fault level

o Outgoing Circuits

· New printed/typed legend

· CoC

23	Supply	No	1
24	Install	No	1

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ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL

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ELECTRICAL DISTRIBUTION BOARDS and COC's

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ELECTRICAL DISTRIBUTION BOARDS and COC's

DEVELOPMENT BANK OF SOUTH AFRICA

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1	ELECTRICAL PRELIMINARY and GENERAL	127	
2	ELECTRICAL CABLING and EXCAVATIONS	132	
3	ELECTRICAL LIGHT SWITCHES, SOCKETs, ISOLATORS, etc	139	
4	ELECTRICAL LIGHT FITTINGS, LAMPS and FANS	146	
5	ELECTRICAL DISTRIBUTION BOARDS and COC's	160	
<p style="text-align: right;">Carried to Final Summary</p> <p>Section No. 3</p> <p style="text-align: center;">DEVELOPMENT BANK OF SOUTH AFRICA</p>			<p style="text-align: right;">R</p>

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 1EXTERNAL WORKS</u>			
<u>(PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
Where applicable the Contractor is referred to the relevant sections of SANS1200 for the full specification, meaning and implications of the work to be executed			
<u>EARTHWORKS (SMALL WORKS)</u>			
<u>(SANS 1200 DA)</u>			
<u>8.3.1 Excavation</u>			
1	Clear and Grub	m2	1,013
2	Remove topsoil to nominal depth 150 mm, stockpile and maintain	m2	1,013
<u>Excavate in all materials and use for embankment or backfill, as ordered</u>			
3	Excavting soft material within the following depth range below the surface		
	(i) 0.0m up to 1.0m	m3	323
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Section No. 4			
Bill No. 1			
EXTERNAL WORK			
DEVELOPMENT BANK OF SOUTH AFRICA			

**Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL**

	<u>Extra-over for</u>				
4	Intermediate excavation	m3	65		
5	Hard rock excavation	m3	32		
	<u>8.3.3 Overhaul</u>				
6	Long overhaul (provisional - in excess of 1 km)	m3	2,001		
	<u>8.3.4 Importing of materials from commercial Sources</u>				
7	G5 material according to Atterberg Classification System	m3	107		
	<u>8.3.8 Existing Services</u>				
8	8.3.8.1 Location				
	c) Excavate by hand in soft material to expose pipe services	m3	3		
	<u>EARTHWORKS (PIPE TRENCHES) (SANS 1200 DE</u>				
	<u>8.3.1 Site clearance and (if specified) removal of topsoil</u>				
9	Clear vegetation and trees of girth up to 1 m	m	205		
10	Remove topsoil to depth of 150mm	m2	205		
	Carried to Collection			R	
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	EXTERNAL WORK				
	DEVELOPMENT BANK OF SOUTH AFRICA				

<u>8.3.2 Excavation</u>					
<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material</u>					
11	Up to 125 mm dia pipes for depths				
	Over and up to				
	0 m 1,0 m	m	205		
<u>Extra-over item (a) above for:</u>					
12	Intermediate excavation	m3	21		
<u>8.3.3 Excavation ancillaries</u>					
<u>8.3.3.1 Make up deficiency in backfill material (provisional</u>					
13	By importation from commercial sources	m3	31		
<u>CONCRETE (STRUCTURAL)</u>					
<u>(SANS1200 G)</u>					
<u>8.2 SCHEDULED FORMWORK ITEMS</u>					
<u>8.2.1 Rough (Class F1 finish)</u>					
<u>Vertical</u>					
14	Inside faces of retaining wall	m2	238		
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	<u>8.2.2 Smooth (Class F3 finish)</u> <u>Vertical</u>				
15	Outside faces of retaining wall	m2	192		
16	All faces of water tank platform	m2	6		
	<u>8.3 SCHEDULED REINFORCEMENT ITEMS</u>				
	<u>8.3.1 Steel bars</u>				
17	Mild steel reinforcement - R10	kg	33		
18	High-tensile reinforcement - Y12	kg	5,918		
	<u>8.3.2 High-tensile Welded Mesh</u>				
19	Mesh Ref 617	m2	19		
	<u>8.4 SCHEDULED CONCRETE ITEMS</u>				
	<u>8.4.2 Blinding Layer in retaining wall foundations</u> <u>Concrete 15/20</u>				
20	75mm thick	m2	159		
	<u>8.4.3 Strength Concrete</u>				
21	Class 25/20 in foundations	m3	5		
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22	Class 30/20 in apron slabs	m3	26		
23	Class 30/20 in walls, foundations and lined open drains	m3	150		
	<u>8.4.4 Unformed surface finishes</u>				
24	Wood-floated finish (Class U1 finish)	m2	174		
	<u>8.5 JOINTS</u>				
	<u>8.5.1 Filled Joints</u>				
25	10mm Thick bitumen impregnated fibreboard	m2	35		
	<u>8.5.2 Sealing joints with:</u>				
26	10 x 10mm silicone sealant "Dow corning 888" or similar	m	307		
	<u>8.5.3 Maintain/ repair existing joints</u>				
27	Expansion joints in building walls, floors and beams - Joint sealant to be non hazardous and non toxic, accommodate movement of +-20% and chemical resistant (Remove old sealant from joints, clean joints and reseal)	m	50		
28	Construction joints at wall-floor interfaces, brick wall-concrete column interfaces, channel-channel interfaces: Joints to be sealed with cementitious grout of 3 portions plaster sand and 1 portion cement (Remove old sealant from joints, clean joints and reseal)	m	170		
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MEDIUM-PRESSURE PIPELINES (SANS 1200 L)

8.2.1 Supply, lay and bed pipes on Class B bedding complete with couplings with 500mm cover

uPVC Class 12

29	110mm diameter	m	10
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Equal tees

30	110mm diameter Cast Iron	No	1
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8.2.3 Extra-over 8.2.1 for the supplying, fixing, and bedding valves

31	50 mm (RSV) socketed gate valve	No	2
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32	100 mm (RSV) socketed gate valve	No	1
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8.2.11 Anchor/thrust blocks and pedestals

33	Concrete, class 25/20	m3	1
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34	Formwork, wooden planks	m2	5
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8.2.10 Accessories

40 Supply and Install Concrete Manholes with cover and frame

(a) 1000 mm DIA manhole, depth range 0-1.5m

No 3

41 500mm x 500mm Fibre glass grid (depth is 25mm with 50mm x 50mm pitch)

No 1

ERF CONNECTIONS (WATER) (SANS 1200 LF)

42 8.2.1 Provide Erf Connections Complete as per drawing L0826-00-D-01A11-00. Connection to exiting water supply to be liaised with local authority.

No 1

SEGMENTED PAVING (SANS 1200 MJ)

43 8.2.1 Provision of Edge Restraints

m 80

44 8.2.2 Construction of Paving Complete

m2 510

45 8.2.3 Cutting Units to Fit Edge Restraints

m 80

Provide and Construct paving complete on 25mm riversand bedding

46 60mm Grey Interlocking

m2 510

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	<u>Cutting units to fit edge restraints</u>				
47	Straight cutting to 60mm and 80 mm paving	m	210		
	<u>KERBING AND CHANNELLING</u> <u>(SANS 1200 MK)</u>				
	<u>8.2.7 Trimming of Excavations for Concrete-Lined Open</u>				
48	Soft Material	m2	115		
	<u>ANCILLARY ROADWORKS (SANS 1200 MM)</u>				
	<u>8.3 PERMANENT ROAD SIGNS</u>				
	<u>8.3.1 Sign faces with painted or coloured background, with painted symbols, characters, legend, and borders, and with signboards constructed from</u>				
49	Sheet steel (1,6 m thick), of area Over and up to 0m² to 2m²	m2	2		
	<u>8.3.2 Provision and application of retro-reflective material</u>				
50	Engineering grade retro-reflective background, characters, symbols, legend and borders	m2	2		
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TRADE NAMES

Whenever a trade name for any product has been described in the Priced Document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to written approval of the Representative Agent being obtained prior to the closing date of 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.

57	Remove existing boundary wall/ fence to a dump site located by the contractor	m	580		
58	Vehicle access gate 6m x 2,5 meter high, construct with 50x50x3mm square tubing on sliding rail.	No	2		

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DEVELOPMENT BANK OF SOUTH AFRICA

Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL

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<u>WATER RETICULATION</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
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			
<u>Filling (General)</u>			
Back filling described as: - "filling in pipe trenches, etc." , all backfilling shall be done with approved backfilling compacted to 93% Mod. AASHTO density, unless otherwise described			
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"Polycop" polypropylene pipes

Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated

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

All pipe diameters are nominal external

"Polylink" polypropylene pipes

Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints

Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured

Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers

Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

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Polypropylene pipes

Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with fast-fuse heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated

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

Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints

Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured

Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers

Branch tees shall include flanged and bolted joints to branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

uPVC pipes and fittings

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

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Bill No. 2

WATER RETICULATION

DEVELOPMENT BANK OF SOUTH AFRICA

uPVC pressure pipes and fittings

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

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"

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WATER RETICULATION

DEVELOPMENT BANK OF SOUTH AFRICA

Laying, backfilling, bedding, etc. of pipes

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with SANS 2001-DP1

Holes for pipes

Holes for pipes, cutting and fitting around pipes, the making good thereof, etc. in brick and/or concrete sidewalls of catch pits, manholes, valve chambers, etc. shall be deemed to be included in descriptions of pipework

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

WATER RETICULATION

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

1	75mm Dia uPVC pipe class 9	m	195
	<u>Fittings and specials - uPVC bends(Extra-over rate to items 3.1.1 to 3.1.6)</u>		
2	75mm 22.5 degree bend	No	1
3	75mm 45 degree bend	No	3
4	75mm 90 degree bend	No	5
	<u>Special fittings - uPVC Tees:(Extra-over rate to items 3.1.1 to 3.1.6)</u>		
5	75mm dia. Equal Tees	No	4
6	110mm x 75mm unequal tees	No	1

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7	<u>Valve Chamber:</u> Valve chamber - 1200 x 1400 x 1000mm deep, complete including excavations, materials, plant, labor, incidentals, etc. as per detail drawings.	No	1	

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<u>PROVISIONAL SUMS</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
<u>Cash discount</u>			
No cash discount. All provisional sums are "NET"			
<u>Fuel, power and water for commissioning plant</u>			
The cost of water, power and fuel for the commissioning of plant shall be borne by the Selected or Nominated Sub-contractor appointed for the relevant selected or nominated sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved			
<u>Profit</u>			
Provisional sums are net and do not include builder's discount. The Contractor may allow next to "Profit" items for any profit he might consider necessary			
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Attendance

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

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

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

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

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

PROVISIONAL SUMS FOR SELECTED SUBCONTRACT WORKS

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

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

BUDGETARY ALLOWANCE

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PROVISIONAL SUMS

DEVELOPMENT BANK OF SOUTH AFRICA

**Kwazulu Natal Department of Education
Asbestos Replacement
CWEBEZELA SENIOR PRIMARY SCHOOL**

COMMUNITY LIAISON OFFICER

- 1 Provide the amount of R100 000.00 (ONE hundred Thousand Rands) nett for Community Liason Officer's Salary to be omitted in part or whole as instructed by Principal Agent (R10 000 per month)

Item 100,000.00

KITCHEN & TUCK SHOP UPGRADES

- 2 Allow the amount R125 000.00 (One hundred twenty five Thousand Rands) for upgrading the existing Kitchen and tuck shop to comply with OHS act regulations

Item 125,000.00

PROVISIONAL SUMS FOR NOMINATED/SELECTED SL

GAS INSTALLATION

- 3 Allow the amount R25 000.00 (Twenty Five Thousand Rands) for upgrading existing GAS installations to comply with OHS act regulations

Item 25,000.00

- 4 Profit and attendance on the above

Item

APPROVED INSPECTION AUTHORITY (AIA)
INSPECTIONS

- 5 Allow the amount R175 000.00 (One hundred Seventy Five Thousand Rands) for AIA inspections, reports, etc on Asbestos remova

Item 175,000.00

BOUNDARY FENCING

- 6 Allow the amount of R1 392 000.00 (One million and three hundred ninety two thousand Rands) for the supply and installation of a new fence.

Item 1,392,000.00

- 7 Profit and attendance on the above

Item

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CWEBEZELA SENIOR PRIMARY SCHOOL**

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	TOTAL (EXCLUDING VAT)		R
	Allow 5% Contingency Amount for the unforeseen and the sum provided is under the sole control of the client and upon approval by the Client Representative and deducted in whole or in part.		R
	TOTAL (INCLUDING CONTINGENCY)		R
	VAT @ 15%		R