

Item
No

Quantity

Amount

SECTION No 1

Bill No 1

PRELIMINARIES

MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

PRELIMINARIES

The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"

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 this bill of quantities

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SECTION A

JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

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OBJECTIVE AND PREPARATION

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

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

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3 **A3.0 DOCUMENTS**

Clause 3.0

Clause 3.7 is amended by the addition of the following:

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

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4	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p>	
	Fixed: _____ Value related: _____ Time related: _____	Item
5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4</p>	
	Fixed: _____ Value related: _____ Time related: _____	Item
6	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p>	
	Fixed: _____ Value related: _____ Time related: _____	Item
7	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C - Specific Preliminaries of the bill of quantities / lump sump document for the contractor to have the opportunity to price for all the requirements of Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p>	
	Fixed: _____ Value related: _____ Time related: _____	Item
8	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p>	
	Fixed: _____ Value related: _____ Time related: _____	Item
9	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p>	
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10 **A10.0 WORKS INSURANCES**

Clause 10.0

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

10.5 Damage to the Works

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

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

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

10.7 High risk insurance

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

10.7.1 Damage to the works

The **contractor** shall, from the commencement **date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

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

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

Fixed: R100 000.00 Value related: _____ Time related: _____

11 **A11.0 LIABILITY INSURANCES**

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

12 **A12.0 EFFECTING INSURANCES**

Clause 12.0

Fixed: _____ Value related: _____ Time related: _____

13 **A13.0 No clause**

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N/A

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14 **A14.0 SECURITY**

Clause 14.0

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

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be provided by the **contractor** to the **employer** will be as 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 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**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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EXECUTION

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

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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 15.1.2 and 15.1.4

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

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17 **A17.0 CONTRACT INSTRUCTIONS**

Clause 17.0

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

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

Clause 18.0

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

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COMPLETION

24 **A24.0 PRACTICAL COMPLETION**

Clause 24.0

Fixed: _____ Value related: _____ Time related: _____

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25 **A25.0 WORK'S COMPLETION**

Clause 25.0

Fixed: _____ Value related: _____ Time related: _____

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26 **A26.0 FINAL COMPLETION**

Clause 26.0

Fixed: _____ Value related: _____ Time related: _____

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

Clause 27.0

Fixed: _____ Value related: _____ Time related: _____

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28 **A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed: _____ Value related: _____ Time related: _____

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29 **A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time related: _____

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

Clause 30.0

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PAYMENT

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

Clause 31.0

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

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

Alternative A

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

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

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

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

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

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 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**

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

Clause 32.0

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

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

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

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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

Clause 34.0

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

Clause 34.1 is amended by removing "#" next to 34.2

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

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

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35 **A35.0 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: _____ Value related: _____ Time related: _____

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CANCELLATION

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

Clause 36.0

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

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

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

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

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

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Clause 36.0 is amended by the addition of the following clause:

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

Fixed: _____ Value related: _____ Time related: _____

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

Clause 37.0

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

Clause 37.0 is amended by the addition of the following clause:

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 38.0

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

Clause 38.0 is amended by the addition of the following clause:

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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

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

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) **working days** of completion of such report"

Fixed: _____ Value related: _____ Time related: _____

Item

40 **A40.0 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS

41 **A41.0 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

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

Clause 42.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

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SECTION B

JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

43 B1.1 Definitions and interpretation

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

44 B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

45 B2.2 Provisional bill of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

46 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

47 B2.4 Interest of agents

Fixed: _____ Value related: _____ Time related: _____

Item

48 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

49 B2.6 Tender submission

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

Fixed: _____ Value related: _____ Time related: _____

Item

B3.0 THE SITE

50 B3.1 Defined works area

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	Fixed: _____ Value related: _____ Time related: _____	Item
51	B3.2 Geotechnical investigation	
	Fixed: _____ Value related: _____ Time related: _____	Item
52	B3.3 Inspection of the site	
	Fixed: _____ Value related: _____ Time related: _____	Item
53	B3.4 Existing premises occupied	
	Fixed: _____ Value related: _____ Time related: _____	Item
54	B3.5 Previous work - dimensional accuracy	
	Fixed: _____ Value related: _____ Time related: _____	Item
55	B3.6 Previous work - defects	
	Fixed: _____ Value related: _____ Time related: _____	Item
56	B3.7 Services - known	
	Fixed: _____ Value related: _____ Time related: _____	Item
57	B3.8 Services - unknown	
	Fixed: _____ Value related: _____ Time related: _____	Item
58	B3.9 Protection of trees	
	Fixed: _____ Value related: _____ Time related: _____	Item
59	B3.10 Articles of value	
	Fixed: _____ Value related: _____ Time related: _____	Item
60	B3.11 Inspection of adjoining properties	
	Fixed: _____ Value related: _____ Time related: _____	Item

B4.0 MANAGEMENT OF CONTRACT

61 B4.1 Management of the works

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	Fixed: _____ Value related: _____ Time related: _____	Item
72	B6.3 Advertising	
	Fixed: _____ Value related: _____ Time related: _____	Item
73	B6.4 Plant, equipment, sheds and offices	
	Fixed: _____ Value related: _____ Time related: _____	Item
74	B6.5 Main notice board	
	Fixed: _____ Value related: _____ Time related: _____	Item
75	B6.6 Subcontractors' notice board	
	Fixed: _____ Value related: _____ Time related: _____	Item
	<u>B7.0 TEMPORARY SERVICES</u>	
76	B7.1 Location	
	Fixed: _____ Value related: _____ Time related: _____	Item
77	B7.2 Water	
	Fixed: _____ Value related: _____ Time related: _____	Item
78	B7.3 Electricity	
	Fixed: _____ Value related: _____ Time related: _____	Item
79	B7.4 Telecommunication facilities	
	Fixed: _____ Value related: _____ Time related: _____	Item
80	B7.5 Ablution facilities	
	Fixed: _____ Value related: _____ Time related: _____	Item
	<u>B8.0 PRIME COST AMOUNTS</u>	
81	B8.1 Responsibility for prime cost amounts	
	Fixed: _____ Value related: _____ Time related: _____	Item

Carried to Collection

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B9.0 ATTENDANCE ON N/S SUBCONTRACTORS

82 B9.1 General attendance

Fixed: _____ Value related: _____ Time related: _____

Item

83 B9.2 Special attendance

Fixed: _____ Value related: _____ Time related: _____

Item

84 B9.3 Commissioning - fuel, water and electricity

Fixed: _____ Value related: _____ Time related: _____

Item

B10.0 FINANCIAL ASPECTS

85 B10.1 Statutory taxes, duties and levies

Fixed: _____ Value related: _____ Time related: _____

Item

86 B10.2 Payment for preliminaries

Fixed: _____ Value related: _____ Time related: _____

Item

87 B10.3 Adjustment of preliminaries

Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taken possession of the site" with "in his priced bill of quantities / lump sum document submitted with his tender offer"

Fixed: _____ Value related: _____ Time related: _____

Item

88 B10.4 Payment certificate cash flow

Fixed: _____ Value related: _____ Time related: _____

Item

B11.0 GENERAL

89 B11.1 Protection of the works

Fixed: _____ Value related: _____ Time related: _____

Item

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

Fixed: _____ Value related: _____ Time related: _____

Item

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91	B11.3 Security of the works	Fixed: _____ Value related: _____ Time related: _____	Item
92	B11.4 Notice before covering work	Fixed: _____ Value related: _____ Time related: _____	Item
93	B11.5 Disturbance	Fixed: _____ Value related: _____ Time related: _____	Item
94	B11.6 Environmental disturbance	Fixed: _____ Value related: _____ Time related: _____	Item
95	B11.7 Works cleaning and clearing	Fixed: _____ Value related: _____ Time related: _____	Item
96	B11.8 Vermin	Fixed: _____ Value related: _____ Time related: _____	Item
97	B11.9 Overhand work	Fixed: _____ Value related: _____ Time related: _____	Item
98	B11.10 Instruction manuals and guarantees	Fixed: _____ Value related: _____ Time related: _____	Item
99	B11.11 As built information	Fixed: _____ Value related: _____ Time related: _____	Item
100	B11.12 Tenant installations	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B12.0 SCHEDULE OF VARIABLES</u>			
101	B12.1 Schedule of variables	Fixed: _____ Value related: _____ Time related: _____	Item
Carried to Collection			R
Section No 1 Bill No 1 Preliminaries Upgrading and additional offices - Contract 03 SAPS VUWANI			

This **schedule** contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these **Preliminaries**

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

12.1 PRE TENDER INFORMATION

12.1.1 Provisional bill of quantities

[2.2] The quantities are provisional NO

12.1.2 Availability of construction documentation

[2.3] Construction documentation is complete YES

12.1.3 Interest of agents

[2.4] Details

12.1.4 Defined works area

[3.1] Details

12.1.5 Geotechnical investigation

[3.2] Details

12.1.6 Existing premises occupied

[3.4] Specific requirements

12.1.7 Previous work - dimensional accuracy

[3.5] Details

12.1.8 Previous work - defects

[3.6] Details

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12.19. **Services - known**

[3.7] Details

12.1.10 **Protection of trees**

[3.9] Specific requirements

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements

12.1.12 **Enclosure of the works**

[6.2] Specific requirements

12.1.13 **Offices**

[6.4.3] Specific requirements

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

12.1.14 **Main notice board**

[6.5] Specific requirements

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

12.1.15 **Subcontractors' notice board**

A notice board is required

NO

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12.1.16 Water			
[7.2]	Option C (by employer - metered)	YES	
12.1.17 Electricity			
[7.3]	Option C (by employer - metered)	YES	
12.1.18 Telecommunications			
[7.4]	Telephone	YES	
	Facsimile	YES	
	E-mail	YES	
12.1.19 Ablution facilities			
[7.5]	Option A (by contractor)	YES	
12.1.20 Protection of existing / sectionally occupied works			
[11.2]	Protection is required	YES	
12.1.21 Special attendance			
[9.2]	Subcontractor (1) details		
	Subcontractor (2) details		
	Subcontractor (3) details		
	Subcontractor (4) details		
12.1.22 Protection of works			
[11.1]	Specific requirements		
		Carried to Collection	R
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12.1.23 **Disturbance**

[11.5] Specific requirements

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements

12.2 **POST-TENDER INFORMATION**

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)	YES/NO
Option B (calculates)	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

102 **C1 CONTRACT DRAWINGS**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

103 **C2 GENERAL PREAMBLES**

The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines") and shall be read in conjunction with the **bill of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0" is issued together with the drawings and shall be read in conjunction with the drawings and the **bill of quantities / lump sum document**

Fixed: _____ Value related: _____ Time related: _____

Item

104 **C3 TRADE NAMES**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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105 **C4 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 DPW23(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)

Fixed: _____ Value related: _____ Time related: _____

Item

106 **C5 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

Fixed: _____ Value related: _____ Time related: _____

Item

107 **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

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

Fixed: _____ Value related: _____ Time related: _____

Item

108 **C7 ENTRANCE PERMITS TO SECURITY AREAS**

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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

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109

C8 SECURITY CHECK OF PERSONNEL

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

110

C9 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

Fixed: _____ Value related: _____ Time related: _____

Item

C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bill of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

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 A31.0 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

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111 **C10.1 AWARENESS CHAMPION**
 Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification
 Fixed: _____ Value related: _____ Time related: _____

Item

112 **C10.2 AWARENESS WORKSHOPS**
 Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification
 Fixed: _____ Value related: _____ Time related: _____

Item

113 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC**
 Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification
 Fixed: _____ Value related: _____ Time related: _____

Item

114 **C10.4 ACCESS TO CONDOMS**
 Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification
 Fixed: _____ Value related: _____ Time related: _____

Item

115 **C10.5 MONITORING**
 Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification
 Fixed: _____ Value related: _____ Time related: _____

Item

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116 **C11 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 **bill of quantities / lump sum document**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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Section No 1

Bill No 1

Preliminaries

**Upgrading and additional offices - Contract 03
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Item No	SECTION No 2	Quantity	Rate	Amount
	Bill No 1			
	REMEDIAL WORK (PROVISIONAL)			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371-A"			
	BUILDING WORK			
	<u>MASONRY</u>			
	<u>Breaking down and removing brickwork, etc including temporary propping concrete floor slabs according to the Engineer's specification (refer to Engineer's inspection report 1.1.2.4)</u>			
1	One brick wall	m2	5	
2	One brick walls in lintels	m2	89	
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>			
3	One brick walls	m2	4	
	<u>"Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS in stretcher bond with polished 10 x 6mm deep square recessed joints in both directions</u>			
4	Half brick face brick wall in lining against existing one brick wall, including pointing in stretcher bond on one side	m2	1	
	<u>Taking out and removing 1,2mm single rebated frame suitable for half brick walls including one pair 100mm steel butt hinges</u>			
5	Frame for door 813 x 2032mm high	No	4	
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	Remedial Work (Provisional)			
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	<u>Taking out and removing doors, windows, etc from existing brickwork</u>		
6	Frame for door 813 x 2032mm high	No	1
	<u>Altering openings</u>		
7	Altering opening in one brick wall where 813 x 2032mm high steel door frame removed to form opening for new steel door frame 813 x 2032mm high by breaking out brickwork on both sides, including making good plaster on one side and into 165mm reveals and new "Middelwit Geel / Rooi Travertine" face bricks on other side into 165mm reveals including new brick-on-edge face brick lintel with three 6mm mild steel reinforcement rods through holes in bricks and a further two in joint above header course (new door frame and making good paintwork elsewhere)	No	1
	<u>Cleaning face brickwork including all stains, etc</u>		
8	External face brickwork	m2	1 565
	<u>Fill gaps between precast concrete breeze blocks with mortar</u>		
9	Size 250 x 250 x 90mm built into one brick wall	m2	42
	<u>Fill gaps between brick-on-edge header course lintels, copings, sills, etc with mortar</u>		
10	Sill 180mm wide, set sloping at 15 degrees and slightly projecting from wall face including pointing to top and front edge	m	76
	<u>Repair cracks in brickwork according to the Engineer's specification (refer to Engineer's inspection report 1.1.3.2)</u>		
11	Horizontal crack in brickwork	m	10

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 Bill No 1
 Remedial Work (Provisional)
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CONCRETE

Breaking down and remove treads and risers to staircase, including propping up concrete landings and adjacent floor slabs according to the Engineer's specification (refer to Engineer's inspection report 1.1.2.6)

12	Aprons cast in panels	m3	5
13	Concrete in stairs	m3	3
<u>Cleaning and removing stains from top surfaces of concrete with a wood float finish</u>			
14	Apron, ramps, etc to falls	m2	10
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>			
15	20mm Screed from floors	m2	302
16	40mm Thick on floors and landings	m2	31

WATERPROOFING

Remove "Derbigum SP" membrane or similar approved 4mm thick polyester dual reinforced fill bonded waterproofing system finished with two coats bituminous aluminium paint (refer to Engineer's inspection report 1.1.1.2.2 and 1.1.1.2.3)

17	To screeded concrete roof including preparing screed to receive new waterproofing (measured elsewhere)	m2	145
----	--	----	-----

ROOF COVERINGS

Poly closure to ridge, hip and sidewall flashings

18	Ridge or hip flashing	m	171
19	Sidewall flashing	m	7

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 Remedial Work (Provisional)
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	<u>0.8mm "Brownbuilt Kliplok 406" or similar approved with "Chromadek" finish on one side including poly closures</u>		
20	Sidewall flashing	m	9
21	Counter flashing, including fixing and sealing top edge of flashing against bottom jamb of louvered ventilator (louvered ventilator elsewhere)	m	9
22	Valley flashing	m	10
	<u>Inspect roof sheeting and re-secure sheeting where necessary</u>		
23	Roof covering with pitch not exceeding 25 degrees	m2	641
	<u>Inspect louvre unit and re-secure fly screen where necessary</u>		
24	Triangular shaped (on elevation) residential section louvered ventilators 3500mm wide (at horizontal bottom) x 725mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on	No	2
	<u>CARPENTRY AND JOINERY</u>		
	<u>Inspect, re-secure and supply jointing strips to fibre cement fascia boards</u>		
25	10 x 225mm Fascias and barge boards, including galvanised steel H-profile jointing strips	m	98
	<u>Take off and remove hardwood cornice</u>		
26	20 x 70mm Saligna hardwood cornice nailed to wall	m	3
	<u>Remove wrought meranti skirting and prepare wall to receive new skirting</u>		
27	19 x 76mm Skirting with rounded top edge nailed to brick walls including 25mm meranti quadrant	m	562

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38	Stove unit 750 x 880mm high (Code : F750) with no exposed sides (refer to SQ FU2)	No	20
39	900 x 720mm High (Code : W900) with no exposed sides (refer to OCB FU1)	No	1
40	1200 x 880mm High (Code : F1200) with one exposed side (refer to SQ FU2)	No	14
41	900 x 720mm High (Code : W900) with one exposed side (refer to LH FU1)	No	1
42	Drawer unit 600 x 880mm high including four drawers (Code : F600/4) with one side exposed (refer to OCB FU1)	No	1
43	900 x 880mm High (Code : F900) no exposed sides (refer to OB FU15)	No	1
44	Corner unit 900 x 880mm high (Code : FCU900) with no exposed sides (refer to OCB FU1)	No	1
45	1200 x 720mm High (Code : W1200) with no exposed sides (refer to OCB FU2)	No	1
46	1200 x 880mm High (Code : F1200) no exposed sides (refer to OCB FU1)	No	1
47	600 x 880mm High (Code : F600) with no exposed sides (refer to OCB FU1)	No	4
48	Drawer unit 600 x 880mm high including four drawers (Code : F600/4) with one side exposed (refer to OCB FU1)	No	2
49	Corner unit 900 x 880mm high (Code : FCU900) with no exposed sides (refer to OCB FU1)	No	1
50	1200 x 880mm High (Code : F1200) no exposed sides (refer to OCB FU1)	No	2
<u>Clean built-in cupboards</u>			
51	1781 x 2850mm High (Code : E1832LS) with no exposed sides (refer to SQ FU2)	No	20

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	<u>Sealing counter tops out of 32mm thick chipboard, underside of top to be sealed with "Continuous Pressure Laminated brown backer and vapo seal", all cut edges and exposed chipboard to be sealed with one coat acrylic sealer and then with silicone</u>		
52	Formica tops	m	68
	<u>Service built-in cupboard hinges</u>		
53	1781 x 2850mm High (Code : E1832LS) with no exposed sides (refer to SQ FU2)	No	20
	<u>Service drawer cabinets and replace drawer runners</u>		
54	Drawer unit 580 x 880mm high including four drawers with no exposed sides (refer to SQ FU2)	No	20
55	Drawer unit 600 x 880mm high including four drawers (Code : F600/4) with one side exposed (refer to OCB FU1)	No	2
	<u>Remove and replace vertical edge to 32mm thick chipboard top with 1.0mm thick high pressure formica laminate on exposed surface</u>		
56	Vertical edge 80mm high with formica lamite finish to front and 32mm wide edge	m	7
	<u>Replace one shelf only to the following units</u>		
57	1200 x 880mm High (Code : F1200) with one exposed side (refer to SQ FU2)	No	3
58	1781 x 2850mm High (Code : E1832LS) with no exposed sides (refer to SQ FU2)	No	3
	<u>Replace all the shelves to the following units</u>		
59	1200 x 880mm High (Code : F1200) with one exposed side (refer to SQ FU2)	No	5
60	1781 x 2850mm High (Code : E1832LS) with no exposed sides (refer to SQ FU2)	No	1

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<u>Replace bottom panel only to the following units</u>			
61	Drawer unit 580 x 880mm high including four drawers with no exposed sides (refer to SQ FU2)	No	2
<u>Take out and remove the following cabinets</u>			
62	1200 x 880mm High (Code : F1200) with one exposed side (refer to SQ FU2)	No	6
63	1200 x 720mm High (Code : W1200) with one exposed side (refer to SQ FU2)	No	3
64	Shelve unit 580 x 720mm high divided into two shelves with one side exposed (refer to SQ FU2)	No	6
65	Shelve unit 750 x 400mm high with no exposed sides (refer to SQ FU2)	No	3
<u>CEILINGS</u>			
<u>Take off and remove nailed up ceiling</u>			
66	Fibre cement trap door size 610 x 610mm including frame	No	1
67	Fibre cement ceiling boards with H-profile strips fixed to branderling	m2	24
<u>Take off and remove 6mm fibre cement ceilings fixed to concrete soffits</u>			
68	Ceilings including 52 x 38mm branderling secured to concrete soffit at maximum centres of 400mm	m2	216
<u>Inspect and adjust levels to 6mm fibre cement ceilings and securing nails where necessary</u>			
69	Ceilings including 52 x 38mm branderling secured to concrete soffit at maximum centres of 400mm	m2	25

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82	"DDC106501" nickel plated 65mm ten pin euro-profile master-keyed double cylinder	No	52
83	"SH875" stainless steel lever handle on square back plate with cylinder cut-out	Pairs	55
84	"DPH213" 350 x 32mm stainless steel "D" shaped back-to-back pull handles	Pairs	3
85	"D038R" stainless steel rebate conversion kit for euro-profile locks	No	1
	<u>Install new lockset to combination transformer room door</u>		
86	Size 1232 x 2064mm high	No	1
87	Size 1575 x 2064mm high	No	1
	<u>Cleaning "Flortime Premier" or similar approved synthetic fibrous bulletin pinning board</u>		
88	Size 1500 x 1200mm high with aluminium frame fixed to brickwork	No	1
	<u>Cleaning "Parrot products" or similar approved magnetic white board</u>		
89	Size 2500mm wide x 1250mm high x 20mm deep with a 20mm aluminium frame all around and including build in tray, fixed to wall	No	2
	<u>Re-fit shelf bracket with standard epoxy powder coated finish</u>		
90	450mm Shelf bracket	No	150
	<u>METALWORK</u>		
	<u>Brickwork hangers including waterproof paint according to the Engineer's specification</u>		
91	50 x 3mm Flat bar	kg	276
92	80 x 60 x 6mm Angle section	kg	1 437

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	<u>Clean "Screenex" or "Bastion" or similar approved galvanised steel mesh with frame and supports (refer to drawing No S-9345-43)</u>		
93	Galvanised mesh	m2	133
	<u>Fixing bent breeze block security screen with frame out of 20 x 5mm mild steel flat-iron with 5-star specification expanded metal mesh welded to frame, secured against brickwork with 10mm rawl bolts</u>		
94	Size 750 x 750mm high	No	3
	<u>Clean windows and service window fittings</u>		
95	Window type NE1, 533 x 654mm high	No	15
96	Window type NC1, 533 x 949mm high	No	22
97	Window type NE7, 1022 x 654mm high	No	1
98	Window type NC2, 1022 x 949mm high	No	2
99	Window type NC2F, 1022 x 949mm high	No	20
100	Window type NCTX7S, 1022 x 949mm high	No	2
101	Window type TD57S, 1022 x 1559mm high	No	11
102	Window type TD67S, 1022 x 1873mm high	No	2
103	Window type NC4F, 1511 x 949mm high	No	2
104	Window type TD57S5, 1511 x 1559mm high	No	1
105	Window type NCTX7S8, 2000 x 949mm high	No	2
106	Window type ND511F, 2000 x 1540mm high	No	20
107	Window type TD57S5, 2000 x 1559mm high	No	2
108	Window type NCTX7S/NCTX7S, 2044 x 949mm high coupled with 25 x 25 x 3mm mild steel square tubing	No	1
109	Window type TD57S/TD57S, 2044 x 1559mm high coupled with 25 x 25 x 3mm mild steel square tubing	No	1
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110	Window type TD57S5/TD57S5, 3022 x 1559mm high coupled with 25 x 25 x 3mm mild steel square tubing <u>Service, re-secure and clean purpose made cell windows including cell window screens</u>	No	1
111	Window size 437 x 960mm high with side-hung opening sections, all according to SAPS 5-star specification (refer to SAPS drawing POL 2006/W1-W3)	No	1
112	Window size 850 x 960mm high with side-hung opening sections, all according to SAPS 5-star specification (refer to SAPS drawing POL 2006/W1-W3) <u>Replace window handle</u>	No	87
113	Window type ND511F, 2000 x 1540mm high <u>Service door and replace lock and barrel bolts to combination transformer room door</u>	No	2
114	Size 1575 x 2064mm high <u>Replacing lock set, service and clean purpose made natural anodised aluminium doors</u>	No	1
115	Purpose made aluminium double door and frame size 1500 x 2104mm high (refer to D2 drawing No 25140/23-OB2)	No	1
116	Purpose made aluminium double door and frame size 1880 x 2104mm high, door complete according to door schedule specification including Ironmongery and 6mm thick clear laminated shutterproof glass (glazing to be factory fitted) (refer to D1 drawing No 25140/17-OCB) <u>Removing incorrect door to "Behind counter (SAP18) including making good opening to install new cell door (measured elsewhere)</u>	No	1
117	Size 1018 x 2020mm high	No	1

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	<u>Remove and temporary store mild steel balustrade and reinstall to concrete balconies according to the Engineer's specification .</u>		
118	Balustrade manufactured out of 50 x 25 x 2.5mm mild steel rectangular tubing columns and vertical / horizontal sections with diagonal styles out of 25 x 25 x 2.5mm sections, all mitre at angles before welding, with vertical styles out of 12 x 12mm mild steel solid square sections at equal centres as indicated, balustrade fixed to floor with 100 x 100 x 5mm mild steel fixing plate welded to column and bolted to concrete floor with four M10 rawl bolts (refer to drawing No 25140/07-SQ)	m	118
	<u>Supply of lock set only</u>		
119	"Mutual" or similar approved safe and security door size 950 x 1970mm high, Type DS2 10mm SANS 10400 S/SS4 according to NBR Category 1 strongroom / safe door, to SAPS (5-star) approval	No	1
	<u>Cleaning "Mutual" or similar approved safe and security door Type DS2 10mm SANS 10400 S/SS4 according to NBR Category 1 strongroom / safe door, to SAPS (5-star) approval, including lockset and grey powder coated finish</u>		
120	Size 950 x 1970mm high	No	1
	<u>Servicing purpose made cell windows</u>		
121	Window size 850 x 960mm high with side-hung opening sections, all according to SAPS 5-star specification (refer to SAPS drawing POL 2006/W1-W3)	No	2
	<u>Cleaning and servicing purpose made hot dipped galvanised cell doors</u>		
122	Door with steel grill gate, size 1018 x 2020mm high overall, including all ironmongery according to the SAPS 5-STAR specification (refer to drawing POL 2006/D1a, D1-D5)	No	28
	<u>Install lock set to gate</u>		
123	Gate size 694 x 2235mm high overall, with lockset case, lock and three heavy duty bullet hinges (refer to D17 on drawing No 25140/18-OCB)	No	1

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124	Gate size 800 x 2235mm high overall, with lockset case, lock and three heavy duty bullet hinges (refer to D16 on drawing No 25140/18-OCB)	No	1
<u>PLASTERING</u>			
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>		
125	Internal plaster from walls	m2	11
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>		
126	Internal plaster from walls and columns	m2	31
	<u>Making good internal cement plaster</u>		
127	Walls in patches	m2	26
	<u>Sand down existing plastered walls to remove paint and apply one coat "Rhinolite" plaster</u>		
128	To internal walls	m2	1 310
	<u>Sand down existing high strength plaster and apply one coat "Rhinolite" plaster</u>		
129	On walls	m2	2 433
130	On walls	m2	84
<u>TILING</u>			
	<u>Remove and replace 8mm PVC tile edge strip including hacking off and replacing one row of 152 x 152 x 4mm Johnson's first grade white glazed tiles including white grout between tiles in square patterns</u>		
131	8mm PVC tile edge strip to top of tile skirting	m	327
132	8mm PVC tile edge strip to top of wall tiles	m	403

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	<u>Cleaning 152 x 152 x 4mm Johnson's first grade white glazed tiles in square patterns including grout in square patterns</u>		
143	On walls	m2	109
	<u>Cleaning 240 x 240 x 11mm unglazed extruded ceramic tiles including cleaning grout between tiles in square patterns</u>		
144	On floors and landings	m2	84
	<u>Cleaning 300 x 300 x 10mm class 3 unglazed ceramic floor tiles (excluding grout between tiles)</u>		
145	On floors and landings	m2	156
	<u>Cleaning 300 x 300 x 10mm class 3 unglazed ceramic floor tiles including cleaning grout between tiles in square patterns</u>		
146	On floors and landings	m2	239
147	In skirting 150mm high including cleaning stainless steel edging strip	m	136
	<u>Cleaning unglazed extruded ceramic bull nose tile size 240 x 150 x 11mm including cleaning grout between tiles</u>		
148	In skirting against face brick walls including cleaning stainless steel edging strip	m	48
	<u>8mm PVC tile edge strip</u>		
149	On internal plastered walls fixed to finish wall tiles	m	25
	<u>PLUMBING AND DRAINAGE</u>		
	<u>Rainwater spout according to the Engineers' specification (refer to Engineer's inspection report 1.1.2.1)</u>		
150	Rainwater spout to balconies and walkways	No	30

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	<u>Re-fix sink to worktop, including sealing all round</u>		
151	Re-secure existing Model "Si" grade 304 (18/10) stainless steel centre bowl catering sink, size 1200 x 650mm including sealing all around	No	14
	<u>Outstanding rose plate to back of tap only</u>		
152	Install outstanding rose plate to back of existing wall type "Star" sink mixer (code 166/041) with overarm swivel outlet	No	7
153	Install outstanding rose plate to back of existing 15mm "Stella" single tap hole sink mixer with overarm swivel outlet (code 3396ST)	No	2
	<u>Sealing around sanitary fittings against counter tops</u>		
154	Seal all around existing Model "Si" grade 304 (18/10) stainless steel centre bowl catering sink, size 1200 x 650mm	No	1
155	Seal all around existing Model "Si" grade 304 (18/10) stainless steel centre bowl catering sink, size 1200 x 650mm	No	6
	<u>Re-secure sanitary fittings to tops including sealing all around</u>		
156	Re-secure existing Model "Si" grade 304 (18/10) stainless steel centre bowl catering sink, size 1200 x 650mm including sealing all around	No	1
157	Re-secure existing "Sodiaco Model ZOx651" Grade 304 18/10 polished stainless steel left hand inset sink (code 314184 LHD) size 1000 x 500mm wide including sealing all around	No	1
	<u>Cleaning and finish tap neatly against tiles</u>		
158	Clean existing wall type "Star" sink mixer (code 166/041) with overarm swivel outlet	No	6

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	<u>Clean and service "Franke" or similar approved</u>		
159	Clean and service existing wall and floor mounted shrouded stainless steel WC pan without WC lid, including 20mm brushed chrome "Econoflush" front access junior concealed toilet flush master with integral shut-off valve, box, stainless steel faceplate and chrome plated pushbutton assembly, complete with flush pipes, elbow and pan connector (refer to KF4.213)	No	9
160	Clean and service existing stainless steel recessed type drinking fountain wash hand basin with 20mm brushed chrome "Econoflush" front access junior concealed urinal "Flushmaster" with integral shut-off valve, box, stainless steel faceplate and chrome plated push bottom assembly, complete with flush pipe and elbow (refer to KF8.112)	No	9
	<u>Clean and service "Vandalmater" or similar approved</u>		
161	Clean and service existing 15mm brushed chrome plated shower push button	No	9
	<u>SERVICE DUCT OPENINGS</u>		
	<u>Service duct openings according to the Engineer's specification (refer to Engineer's inspection report 1.1.2.5)</u>		
	<u>Temporary barricades, screens, etc</u>		
162	Hard hoarding with shutter board 1.2m high	m	30
163	Mesh fencing	m2	50
	<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>		
164	170mm Thick slabs	m2	7
165	Sealling off cut reinforcement with "SikaGrout GP" or similar approved		Item

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ELECTRICAL INSTALLATION

Administration block

Electrical installation

The snag list must be adhered to and ensure that the complete electrical installation complies to the SANS 10142-1 (Snag list supplied on request)

166 Replace/correct the power skirting that is installed very untidy and the same colours is not used throughout for the corners, end caps, etc

Item

167 Ensure all electrical wiring throughout the building is neatly intact in trunking, conduits, etc

Item

168 Ensure that all electrical circuits are correctly labelled in the distribution boards and all socket outlets, light switches, isolators are labelled accordingly

Item

169 Check that all electrical equipment positions are installed as per tender drawings

Item

Access control

170 Ensure that the complete access control system is powered through the UPS and that the batteries for each maglock is operational

Item

171 The complete access control system must be inspected and corrected if not fitted correctly securely

Item

172 Ensure all exit doors and fire doors must comply to the fire regulations

Item

CCTV

173 Supply and installation of equipment cabinets to mount CCTV recording and control equipment to suit all equipment. (Cabinet supplied before not to standard)

No

1

174 Ensure that the power supply to all CCTV equipment and control is connected to the UPS

Item

175 Check and repair all cable work to suit system offered - Administration building

Item

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176	Check and replace all cameras that are not to standard and are not functional		Item
177	Monitor and control of CCTV to be done from the CSC Building - Radio Room (new installation)		Item
<u>Single quarters</u>			
<u>Electrical installation</u>			
178	Replace all normal socket outlets with combined socket outlets with Euro plugs throughout	No	110
179	All the bulkhead luminaries inside the units are installed with black trim and must be replaced with white trim bulkheads	No	84
180	Ensure all electrical wiring throughout the building is neatly intact in trunking, conduits, etc		Item
181	Ensure that all electrical circuits are correctly labelled in the distribution boards and all socket outlets, light switches, isolators are labelled accordingly		Item
182	Check that all electrical equipment positions are installed as per tender drawings		Item
183	Clean all "Cbi" circuit breakers in all distribution boards		Item
<u>Fire detection</u>			
184	Replace and install all heat detectors with sounders combined	No	21
185	Install strobe light above each unit's entrance door in the passage	No	21
186	Install "Break Glass Units" on each floor in the vicinity of the stairs	No	3
<u>CSC building</u>			
<u>Electrical installation</u>			
187	Replace all normal socket outlets with combined socket outlets with Euro plugs throughout	No	60

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188	Ensure all electrical wiring throughout the building is neatly intact in trunking, conduits, etc		Item
189	Ensure that all electrical circuits are correctly labelled in the distribution boards and all socket outlets, light switches, isolators are labelled accordingly		Item
190	Check that all electrical equipment positions are installed as per tender drawings		Item
191	Clean all "Cbi" circuit breakers in all distribution boards		Item
<u>Electrical reticulation</u>			
<u>MV transformer</u>			
192	The mini substation is almost buried half-way with building rubble and soil. The whole area around the mini-substation is to be cleared and suitably protected	m3	5
193	The mini substation cooling fins to be checked for possible damage due to this building rubble and soil being dumped against it		Item
194	Check for corrosion, especially where the rubble and soil is against the mini sub, repaint if required		Item
<u>Kiosk behind mini sub</u>			
195	The kiosk behind the mini sub is on uneven ground and must be levelled in order for maintenance personnel to have good footing and can work safely inside the kiosk	m3	2
<u>Manholes</u>			
196	All manholes to be checked and rectified with the appropriate cover plates	No	14
<u>Generator</u>			
197	The generator must be installed as per drawings and specifications		Item
198	A cable channel to be installed in the generator room as per drawings		Item

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199	The generator control panel to be checked and the required sounder and DC lamp to be installed as per specification		Item
200	The generator must be fully serviced and missing equipment must be replaced, eg. the missing battery to be replaced		Item
<u>Main kiosk</u>			
201	All equipment in the kiosk to be properly labelled as per SANS 10142-1		Item
202	The body of the kiosk to be checked for any corrosion and repaired to new		Item
<u>MECHANICAL INSTALLATION</u>			
<u>Administration block</u>			
<u>HVAC installation</u>			
203	Service and test the dehumidifier in the gun safe rooms	No	2
204	Service and test VRF indoor AC units	No	42
205	Service and test VRF outdoor AC units complete with BC boxes and piping (allow for re-gas)	No	2
206	Service and test high wall split AC units in server room (allow for re-gas)	No	2
207	Service and test fans	No	6
<u>Fire suppression</u>			
208	Re-gas fire suppression FM 200 gas 80L bottles in Archive room	No	3
209	Re-gas fire suppression FM 200 gas 80L bottles in Docket room	No	3
210	Pressure test fire suppression piping in Archive room		Item
211	Pressure test fire suppression piping in Docket room		Item

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212	Test and commission fire suppression system in Archive room		Item
213	Test and commission fire suppression system in Docket room		Item
214	Training of client staff and operators as specified		Item
215	Three sets of complete operating and maintenance manuals for the equipment installation including "As Built Drawings"		Item
<u>Single quarters</u>			
<u>Hot water installation</u>			
216	Replace existing 2m ² flat plate solar collector panels complete with roof support frames, isolating valves, couplings, expansion joints, pressure release valves and all other ancillaries required to ensure a complete functioning system that complies with the specification	No	15
217	Replace plate heat exchanger complete with valves, insulation, cladding, support structure and all other ancillaries required for a fully functional system that complies with the specifications	No	1
218	Replace closed circuit solar primary circuit circulation pump set complete with duty and standby pumps, differential temperature controllers, valves, pressure release valves, propylene glycol heat exchange fluid and all other ancillaries required for a fully functional system that complies with the specifications	No	1
219	Replace domestic hot water circulation pump set complete with duty and standby pumps, differential temperature controllers, valves, pressure release valves, and all other ancillaries required for a fully functional system that complies with the specifications	No	1
220	Supply and install insulation and cladding to piping in the hot water plant room		Item
221	Test and commission hot water installation		Item
222	Training of client staff and operators as specified		Item

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223	Three sets of complete operating and maintenance manuals for the equipment installation including "As Built Drawings"	m	1
	<u>HVAC installation</u>		
224	Check, service, test and commission high wall split AC units in server room (allow for re-gas)	No	20
225	Supply, install and commission wall mounted fan in laundry 200 l/s	No	1
226	Test and commission HVAC installation		Item
227	Training of client staff and operators as specified		Item
228	Three sets of complete operating and maintenance manuals for the equipment installation including "As Built Drawings"		Item
	<u>Cell block</u>		
	<u>HVAC installation</u>		
229	Check, connect, service, test and commission high wall split AC units in server room (allow for re-gas)	No	1
230	Check, connect, service, test and commission ceiling cassette split AC units in server room (allow for re-gas)	No	1
	<u>Lecture room</u>		
	<u>HVAC installation</u>		
231	Check, connect, service, test and commission high wall split AC units in server room (allow for re-gas)	No	2
232	Check, connect, service, test and commission ceiling cassette split AC units in server room (allow for re-gas)	No	1

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<u>GLAZING</u>		
<u>Cleaning glass in window panes</u>		
233	Window panes (area measured both sides)	m2 336
<u>Cleaning standard white powder coated centre pivot shower door and frame</u>		
234	Size 870 x 1 800mm high	No 13
EXTERNAL WORK		
<u>STORMWATER DRAINAGE</u>		
<u>Flushing, rodding and cleaning of stormwater pipes from silt and debris</u>		
235	375mm Pipes not exceeding 1.0m deep	m 55
236	450mm Pipes not exceeding 1.0m deep	m 60
237	450mm Pipes exceeding 1.0m and not exceeding 2.0m deep	m 25
<u>Flushing and cleaning of grid inlets, junction boxes and manholes from silt and debris including benching</u>		
238	1460 x 1460mm Grid inlet not exceeding 1.0m deep	No 12
239	Ditto, but exceeding 1.0m and not exceeding 2.0m deep	No 4
240	1460 x 1460mm Junction box not exceeding 1.0m deep	No 12
241	Ditto, but exceeding 1.0m and not exceeding 2.0m deep	No 6
242	1460 x 1460mm Manhole not exceeding 1.0m deep	No 1
243	Ditto, but exceeding 1.0m and not exceeding 2.0m deep	No 1
<u>STORMWATER CHANNELS</u>		
<u>Clearing and cleaning of open stormwater channels from silt and debris</u>		
244	Average 450mm open concrete stormwater channel	m 60

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SOIL DRAINAGE

Flushing, rodding, cleaning and testing of sewer pipes

245	110mm Pipes not exceeding 1.0m deep	m	95
246	110mm Pipes exceeding 1m not exceeding 2.0m deep	m	403
247	160mm Pipes exceeding 1m not exceeding 2.0m deep	m	73

Flushing and cleaning of concrete circular inspection chambers from silt and debris

248	Inspection chamber exceeding 1.0m and not exceeding 1.5m deep internally	No	10
249	Inspection chamber exceeding 1.5m and not exceeding 2.0m deep internally	No	8

WATER SUPPLIES

Testing of domestic, fire and bulk water supply HDPE pipes

250	63mm Pipe	m	95
251	75mm Pipe	m	70
252	90mm Pipe	m	140
253	110mm Pipe	m	255
254	125mm Pipe	m	95

BOUNDARY WALLS

Breaking down and removing brickwork, etc including temporary propping concrete floor slabs according to the Engineer's specification (refer to Engineer's inspection report 1.1.2.4)

255	One brick wall	m2	14
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EXISTING RETAINING WALLS

30MPa / 19mm Concrete

256	Concrete infill between two half brick skins with mesh in between, including prodding and ensuring that concrete fits around mesh wire according to the Engineer's specification	m3	8
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Mesh reinforcement

257	Ref 193 Mesh steel fabric reinforcement vertically built into brickwork between brick skins lapped minimum 150mm along edges and ends (measured net)	m2	60
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Brickwork reinforcement

258	75mm Wide reinforcement built in horizontally in foundations	m	150
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259	75mm Wide reinforcement built in horizontally	m	300
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Brickwork of NFP bricks (14MPa nominal compressive strength) in class I mortar

260	280mm Cavity walls including one butterfly tie per m2 and two PWD wall ties every 7th layer	m2	80
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"Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS in stretcher bond with polished 10 x 6mm deep square recessed joints in both directions

261	Extra over brickwork for face brickwork	m2	30
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Brick-on-edge header course lintels, copings, sills, etc of "Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS pointed with recessed joints on all exposed faces

262	Coping on top of one brick wall	m	30
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ROADS AND PAVING

Compaction of surfaces

263	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	590
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Earth filling supplied by the contractor under parking areas, roadways, etc

264	Stabilised natural gravel (C4) to form sub-base, spread, levelled, watered, and compacted to 95% "Mod AASHTO" density in layers not exceeding 150mm thick (Refer to drawing No C5293-11)	m3	89
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Stabilisation

265	Stabilisation of imported C4 material	m3	89
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Treatment of sub base with

266	Weed killer	m2	590
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267	Insecticide	m2	590
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Carefully remove and temporary store 80mm thick grey interlocking paving blocks with 25MPa compression strength (SANS approved) on 25mm sand according to the Engineer's specification (refer to Engineer's inspection report 1.1.1.4.1)

268	Paving to parking areas, etc to falls	m2	590
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Re-install 80mm thick grey interlocking paving blocks previously removed and temporarily stored on 25mm sand according to the Engineer's specification (refer to Engineer's inspection report 1.1.5.1)

269	Paving to parking areas, etc to falls	m2	590
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270	<u>80mm Thick grey interlocking paving blocks with 25MPa compression strength (SANS approved) on 25mm sand according to the Engineer's specification (refer to Engineer's inspection report 1.1.5.1)</u> Paving in patches around 75 x 75mm columns	No	28
<u>COVERED WALKWAYS</u>			
271	<u>Break-up concrete column footings and re-install steel portal frame to correct height according to the Engineer's specification (refer to Engineer's inspection report 1.2.3.1.2)</u> Walkway portal frame	No	5

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	ALTERATIONS (PROVISIONAL)			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371-A"			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, windows, etc. including thresholds, sills, etc (building up openings elsewhere)</u>			
1	Timber single door with steel frame 877 x 2064mm high from half brick wall	No	2	
2	Timber single door with steel frame 877 x 2064mm high from one brick wall	No	2	
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>			
3	25mm Granolithic from floors	m2	38	
4	Internal plaster from walls	m2	250	
	<u>Taking out and removing piping, sanitary fittings, etc. including disconnecting piping from fittings and making good floor and wall finishes (making good paintwork elsewhere)</u>			
5	Wash hand basin	No	1	
6	WC pan with cistern	No	1	
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OPENINGS THROUGH EXISTING WALLS, ETC

Altering openings

7	Altering opening in half brick wall where 877 x 2064mm high steel door frame removed to form opening for new steel door frame 877 x 2064mm high by breaking out brickwork on both sides, including making good plaster on both sides and into reveals (new door frame and making good paintwork elsewhere)	No	2
8	Altering opening in one brick wall where 877 x 2064mm high steel door frame removed to form opening for new steel door frame 877 x 2064mm high by breaking out brickwork on both sides, including making good plaster on one side and into 165mm reveals and new "Middelwit Geel / Rooi Travertine" face bricks on other side into 165mm reveals including new brick-on-edge face brick lintel with three 6mm mild steel reinforcement rods through holes in bricks and a further two in joint above header course (new door frame and making good paintwork elsewhere)	No	2

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SOIL POISONING

All soil poisoning and insecticide may only be carried out strictly in accordance with the instructions contained on the label and applied under the direct supervision on the site of a suitable registered **pest control operator** and applied under a **five year** guarantee

Soil insecticides shall comply with **SANS 10400 F/F5 according to NBR**

Work shall be carried out in accordance with "The application of soil insecticides for the protection of buildings" - **SANS 10400 F/F5 according to NBR**

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

Pest control applicators must provide the following

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

Before applying soil poisoning and insecticide, the contractor must submit the **name and registration number** (P number) of the pest control operator to the principal agent

BASF Termidor 25EC insecticide applied at 5 litre mixture per 1m²

7	Under floors, etc including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	360
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WEED KILLER

Weed killer

8	Under paving including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	191
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