

Item No	Amount
<u>SECTION 1</u>	
<u>BILL NO. 1</u>	
<u>PRELIMINARIES</u>	
<u>MEANING OF TERMS "TENDER / TENDERER"</u>	
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"	
<u>PRELIMINARIES</u>	
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".	
<u>PRICING OF PRELIMINARIES</u>	
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.	
<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u>	
<u>DEFINITIONS</u>	
<u>DEFINITIONS AND INTERPRETATION</u>	
Clause 1.0	
Clause 1.1 Definition of "Commencement Date" is added:	
"COMMENCEMENT DATE" means the date that the possession of the site is given to the Contractor	
Clause 1.1 Definition of " Construction Guarantee " is amended by replacing it with the following:	
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"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 date that possession of the site given to the Contractor and ending on the date of **practical completion**

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

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

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

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

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

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as indicated in the Contract Data (C1.2)

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

1 Fixed: _____ Value related: _____ Time related: _____

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OBJECTIVE AND PREPARATION**OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

2 Fixed: _____ Value related: _____ Time related: _____

DOCUMENTS

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

3 Fixed: _____ Value related: _____ Time related: _____

DESIGN RESPONSIBILITY

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

4 Fixed: _____ Value related: _____ Time related: _____

EMPLOYER'S AGENTS

Clause 5.0

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

5 Fixed: _____ Value related: _____ Time related: _____

SITE REPRESENTATIVE

Clause 6.0

6 Fixed: _____ Value related: _____ Time related: _____

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COMPLIANCE WITH REGULATIONS

Clause 7.0

Note: The provisions herein include inter alia, compliance 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), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor

Also see Item 115 of Section C - Specific Preliminaries

7 Fixed: _____ Value related: _____ Time related: _____

WORKS RISK

Clause 8.0

8 Fixed: _____ Value related: _____ Time related: _____

INDEMNITIES

Clause 9.0

9 Fixed: _____ Value related: _____ Time related: _____

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) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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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 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

10 Fixed: _____ Value related: _____ Time related: _____

LIABILITY INSURANCES

Clause 11.0

11 Fixed: _____ Value related: _____ Time related: _____

EFFECTING INSURANCES

Clause 12.0

12 Fixed: _____ Value related: _____ Time related: _____

Clause 13

No Clause

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SECURITY

Clause 14.0

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

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

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

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

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

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

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

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

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

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

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

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

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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

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)

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

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

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

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

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

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

13 Fixed:_____ Value related:_____ Time related:_____

EXECUTION

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), and the Covid-19 regulations within twenty-one (21) **calendar days of commencement date**

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

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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

14 Fixed: _____ Value related: _____ Time related: _____

ACCESS TO THE WORKS

Clause 16.0

15 Fixed: _____ Value related: _____ Time related: _____

CONTRACT INSTRUCTIONS

Clause 17.0

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

16 Fixed: _____ Value related: _____ Time related: _____

SETTING OUT OF THE WORKS

Clause 18.0

17 Fixed: _____ Value related: _____ Time related: _____

ASSIGNMENT

Clause 19.0

18 Fixed: _____ Value related: _____ Time related: _____

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NOMINATED SUBCONTRACTORS

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No clause

Note: See item 81 hereinafter for adjustment of attendance on **nominated subcontractors** executing work allowed for under provisional sums

19 Fixed: _____ Value related: _____ Time related: _____

SELECTED SUBCONTRACTORS

Clause 21.0

Clause 21 is amended by replacing it with:

No clause

20 Fixed: _____ Value related: _____ Time related: _____

EMPLOYER'S DIRECT CONTRACTORS

Clause 22.0

21 Fixed: _____ Value related: _____ Time related: _____

CONTRACTOR'S DOMESTIC SUBCONTRACTORS**Clause 23.0**

22 Fixed: _____ Value related: _____ Time related: _____

COMPLETION**PRACTICAL COMPLETION**

Clause 24.0

23 Fixed: _____ Value related: _____ Time related: _____

WORKS COMPLETION

Clause 25.0

24 Fixed: _____ Value related: _____ Time related: _____

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FINAL COMPLETION

Clause 26.0

Clause 26.1.2 is amended by inserting “#” next to 26.1.2

25 Fixed: _____ Value related: _____ Time related: _____

LATENT DEFECTS LIABILITY PERIOD

Clause 27.0

26 Fixed: _____ Value related: _____ Time related: _____

SECTIONAL COMPLETION

Clause 28.0

27 Fixed: _____ Value related: _____ Time related: _____

REVISION OF DATE FOR PRACTICAL COMPLETION

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

28 Fixed: _____ Value related: _____ Time related: _____

PENALTY FOR NON-COMPLETION

Clause 30.0

29 Fixed: _____ Value related: _____ Time related: _____

PAYMENT**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:

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Alternative A

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

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

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

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

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

Alternative B

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

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

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

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

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

30 Fixed: _____ Value related: _____ Time related: _____

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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**"

31 Fixed: _____ Value related: _____ Time related: _____

RECOVERY OF EXPENSE AND LOSS

Clause 33.0

32 Fixed: _____ Value related: _____ Time related: _____

FINAL ACCOUNT AND FINAL PAYMENT

Clause 34.0

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 “thirty (30) calendar days” and deleting the words “subject to the **employer** giving the **contractor** a tax invoice for the amount due”

33 Fixed: _____ Value related: _____ Time related: _____

PAYMENT TO OTHER PARTIES

Clause 35.0

34 Fixed: _____ Value related: _____ Time related: _____

CANCELLATION**CANCELLATION BY EMPLOYER – CONTRACTOR’S DEFAULT**

Clause 36.0

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

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

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

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

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

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

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

35 Fixed: _____ Value related: _____ Time related: _____

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

36 Fixed: _____ Value related: _____ Time related: _____

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

37 Fixed: _____ Value related: _____ Time related: _____

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CANCELLATION – CESSATION OF THE WORKS

Clause 39.0

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

38 Fixed: _____ Value related: _____ Time related: _____

DISPUTE**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

39 Fixed: _____ Value related: _____ Time related: _____

SUBSTITUTE PROVISIONS**STATE CLAUSES**

Clause 41.0

40 Fixed: _____ Value related: _____ Time related: _____

CONTRACT VARIABLES**THE SCHEDULE (C1.2: CONTRACT DATA)****PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2: Contract Data for variables pertaining to this contract

41 Fixed: _____ Value related: _____ Time related: _____

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SECTION B: JBCC PRELIMINARIES**DEFINITIONS AND INTERPRETATION****Definitions and interpretation**

Also see Item 1 of Section A for additional and/or amended definitions which shall apply equally to this Section

42 Fixed: _____ Value related: _____ Time related: _____

DOCUMENTS**Checking of documents**

43 Fixed: _____ Value related: _____ Time related: _____

Provisional bills of quantities

44 Fixed: _____ Value related: _____ Time related: _____

Availability of construction documentation

45 Fixed: _____ Value related: _____ Time related: _____

Interests of agents

46 Fixed: _____ Value related: _____ Time related: _____

Priced documents

47 Fixed: _____ Value related: _____ Time related: _____

Tender submission

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)"

48 Fixed: _____ Value related: _____ Time related: _____

THE SITE**Defined works area**

49 Fixed: _____ Value related: _____ Time related: _____

Geotechnical investigation

50 Fixed: _____ Value related: _____ Time related: _____

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Site inspection

Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission.

51 Fixed: _____ Value related: _____ Time related: _____

Existing premises occupied

52 Fixed: _____ Value related: _____ Time related: _____

Previous work – dimensional accuracy

53 Fixed: _____ Value related: _____ Time related: _____

Previous work – defects

54 Fixed: _____ Value related: _____ Time related: _____

Services – known

55 Fixed: _____ Value related: _____ Time related: _____

Services – unknown

56 Fixed: _____ Value related: _____ Time related: _____

Protection of trees

57 Fixed: _____ Value related: _____ Time related: _____

Articles of value

58 Fixed: _____ Value related: _____ Time related: _____

Inspection of adjoining properties

59 Fixed: _____ Value related: _____ Time related: _____

MANAGEMENT OF CONTRACT**Management of the works**

60 Fixed: _____ Value related: _____ Time related: _____

Programme for the works

61 Fixed: _____ Value related: _____ Time related: _____

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Progress meetings

62 Fixed: _____ Value related: _____ Time related: _____

Technical meetings

63 Fixed: _____ Value related: _____ Time related: _____

Labour and plant records

64 Fixed: _____ Value related: _____ Time related: _____

SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS**Samples of materials**

65 Fixed: _____ Value related: _____ Time related: _____

Workmanship samples

66 Fixed: _____ Value related: _____ Time related: _____

Shop drawings

67 Fixed: _____ Value related: _____ Time related: _____

Compliance with manufacturers' instructions

68 Fixed: _____ Value related: _____ Time related: _____

TEMPORARY WORKS AND PLANT**Deposits and fees**

69 Fixed: _____ Value related: _____ Time related: _____

Enclosure of the works

70 Fixed: _____ Value related: _____ Time related: _____

Advertising

71 Fixed: _____ Value related: _____ Time related: _____

Plant, equipment, sheds and offices

72 Fixed: _____ Value related: _____ Time related: _____

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Main notice board

73 Fixed: _____ Value related: _____ Time related: _____

Subcontractors' notice board

74 Fixed: _____ Value related: _____ Time related: _____

TEMPORARY SERVICES**Location**

75 Fixed: _____ Value related: _____ Time related: _____

Water

76 Fixed: _____ Value related: _____ Time related: _____

Electricity

77 Fixed: _____ Value related: _____ Time related: _____

Telecommunication facilities

78 Fixed: _____ Value related: _____ Time related: _____

Ablution facilities

79 Fixed: _____ Value related: _____ Time related: _____

PRIME COST AMOUNTS**Responsibility for prime cost amounts**

80 Fixed: _____ Value related: _____ Time related: _____

ATTENDANCE ON N/S SUBCONTRACTORS**General attendance**

81 Fixed: _____ Value related: _____ Time related: _____

Special attendance

82 Fixed: _____ Value related: _____ Time related: _____

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Commissioning – fuel, water and electricity

83 Fixed: _____ Value related: _____ Time related: _____

FINANCIAL ASPECTS***Statutory taxes, duties and levies***

84 Fixed: _____ Value related: _____ Time related: _____

Payment for preliminaries

85 Fixed: _____ Value related: _____ Time related: _____

Adjustment of preliminaries

Clauses B10.3.1 and B10.3.2 of the standard preliminaries are amended by replacing “within fifteen (15) **working days** of taking possession of the **site**” with “in his priced **bills of quantities / lump sum document** submitted with his tender offer”

86 Fixed: _____ Value related: _____ Time related: _____

Payment certificate cash flow

87 Fixed: _____ Value related: _____ Time related: _____

GENERAL**Protection of the works**

88 Fixed: _____ Value related: _____ Time related: _____

Protection / isolation of existing / sectionally occupied works

89 Fixed: _____ Value related: _____ Time related: _____

Security of the works

90 Fixed: _____ Value related: _____ Time related: _____

Notice before covering work

91 Fixed: _____ Value related: _____ Time related: _____

Disturbance

92 Fixed: _____ Value related: _____ Time related: _____

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Section No. 1
SECTION 1 - PRELIMINARIES AND GENERAL
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Preliminaries and general

Environmental disturbance

93 Fixed: _____ Value related: _____ Time related: _____

Works cleaning and clearing

94 Fixed: _____ Value related: _____ Time related: _____

Vermin

95 Fixed: _____ Value related: _____ Time related: _____

Overhand work

96 Fixed: _____ Value related: _____ Time related: _____

Instruction manuals and guarantees

97 Fixed: _____ Value related: _____ Time related: _____

As built information

98 Fixed: _____ Value related: _____ Time related: _____

Tenant installations

99 Fixed: _____ Value related: _____ Time related: _____

SCHEDULE OF VARIABLES**Pre-tender information**

100 Fixed: _____ Value related: _____ Time related: _____

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

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PRE-TENDER INFORMATION**Provisional bills of quantities**

The quantities are provisional (yes/no) Yes

Availability of construction documentation

Construction documentation is complete (yes/no) No

Interests of agents

Details: NONE

Defined works area

Details: Refer to C4 Site Information

Geotechnical investigation

Details: NONE

Existing premises occupied

Specific requirements: The work is executed on the existing facility, which shall remain fully functional 24 hours per day and 7 days a week. The operation of the facility must not be compromised at all.

Previous work – dimensional accuracy

Details: NONE

Previous work - defects

Details: NONE

Services - known

Details: NONE

Protection of trees

Details: NONE

Inspection of adjoining properties

Specific requirements: NONE

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Enclosure of the works

Specific requirements: The site must be suitably hoarded with at least a 1.8m high diamond mesh fence at all times with a limited number of restricted access points.

Offices

Specific requirements:

The **contractor** shall provide, keep clean and maintain and remove on completion of the works, air conditioned offices for the exclusive use of the Employer's **agents comprising the following accommodation requirements:**

6 X Offices minimum size 4 x 3 x 3m high internally, equipped with 2 desks each with lockable drawers, 2 chairs, 2 x 4 drawer lock-up metal fling cabinet and 5 x approved drawing racks.

1 X Conference room to accommodate 25 people with suitable air condition, conference table with a minimum 25 chairs, 6 wall shelves 300mm wide and approximately 400mm long each, pin boards having an area of approximately 12m² and 2 white boards, complete with separate WC, Urinal and wash hand basin.

All windows are to be fitted with burglar bars and offices suitably insulated and ventilated and having good lighting.

Main notice board

Specific requirements:

The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m, 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.

Subcontractors' notice board

Specific requirements: (yes/no) No

Water

Option A (by **contractor**) (yes/no) Yes

Option B (by **employer** - free of charge) (yes/no) No

Option C (by **employer** - metered) (yes/no) No

Electricity

Option A (by **contractor**) (yes/no) Yes

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Option B (by employer - free of charge)	(yes/no)	No
Option C (by employer - metered)	(yes/no)	No

Telecommunications

Telephone	(yes/no)	Yes
Facsimile	(yes/no)	No
E-mail	(yes/no)	Yes

Ablution facilities

Option A (by contractor)	(yes/no)	Yes
Option B (by employer)	(yes/no)	No

Protection of existing/sectionally occupied works

Protection is required	(yes/no)	No
------------------------	----------	----

Special attendance

Subcontractor (1) details: NONE

Subcontractor (2) details: NONE

Subcontractor (3) details: NONE

Subcontractor (4) details: NONE

Protection of the works

Specific requirements: NONE

Disturbance

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**

Environmental disturbance

Specific requirements: As per attached Environmental Management Plan

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POST-TENDER INFORMATION***Payment of preliminaries***

Option A (prorated) (yes/no)

Option B (calculated) (yes/no)

Adjustment of preliminaries

Option A (three categories) (yes/no) Yes

Option B (detailed breakdown) (yes/no) No

Additional agreed preliminaries items

Details:

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

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 understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

101 Fixed: _____ Value related: _____ Time related: _____

GENERAL PREAMBLES

The document "Construction Works: Specification (PW371-A and PW371-B)" is obtainable on request from the head office and all regional offices of the Department, 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

102 Fixed: _____ Value related: _____ Time related: _____

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

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

103 Fixed: _____ Value related: _____ Time related: _____

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 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)

104 Fixed: _____ Value related: _____ Time related: _____

VIEWING THE SITE IN SECURITY AREAS

The **site** is situated in a security area and the tenderer must arrange with the responsible officer to obtain permission to enter the **site** for tendering purposes

105 Fixed: _____ Value related: _____ Time related: _____

COMMENCEMENT OF WORKS IN SECURITY AREAS

As the **works** falls within a security area the **contractor** must give the 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

106 Fixed: _____ Value related: _____ Time related: _____

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 chief security officer

107 Fixed: _____ Value related: _____ Time related: _____

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

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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**

108 Fixed: _____ Value related: _____ Time related: _____

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

109 Fixed: _____ Value related: _____ Time related: _____

HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

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 of "Section 1: Preliminaries (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

AWARENESS CAMPAIGN

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

110 Fixed: _____ Value related: _____ Time related: _____

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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

111 Fixed: _____ Value related: _____ Time related: _____

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

112 Fixed: _____ Value related: _____ Time related: _____

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

113 Fixed: _____ Value related: _____ Time related: _____

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

114 Fixed: _____ Value related: _____ Time related: _____

OCCUPATIONAL HEALTH AND SAFETY ACT

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 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.

Carried to Collection

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Section No. 1
SECTION 1 - PRELIMINARIES AND GENERAL
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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 and all **Covid-19 regulations and directives** are 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.

115 Fixed: _____ Value related: _____ Time related: _____

SUBCONTRACTING AS A CONDITION OF TENDER

It is required that the contractor shall subcontract 30% of the value of the contract including labour and material to EME'S and QSE's as stipulated in the Tender Data C.4.8

Provision for pricing of all the main contractor's cost in this regard is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

116 Fixed: _____ Value related: _____ Time related: _____

LOCAL LABOUR

It is an expressed condition of this contract **that all unskilled labour shall be local labour (At least 80% of total number of workers shall be local)**

Labour forms shall be submitted to the Principal Agent prior to monthly payment certificates.

The Contractor shall adhere to the statutory minimum wage rates as prescribed by law. The Contractor is however at liberty to negotiate additional incentive payments based on performance.

Prospective bidders are to familiarize themselves with the accepted labour cost for the various regions and price accordingly as no claims regarding wages disputes shall be entertained in the contract.

117 Fixed: _____ Value related: _____ Time related: _____

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ENVIRONMENTAL MANAGEMENT PLAN

The contractor shall comply with all the requirements in the environmental management plan attached to this document. It is required of the contractor to thoroughly study attached environmental management plan. The contractor must take note that compliance with the environmental management plan 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 all the main contractors cost in this regard is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

118 Fixed: _____ Value related: _____ Time related: _____

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Section No. 1

SECTION 1 - PRELIMINARIES AND GENERAL

Bill No. 1

Preliminaries and general

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BUILDING WORKS (PROVISIONAL)</u>			
	<u>BILL NO. 1</u>			
	<u>CLASSROOM PAVING</u>			
	<u>PREAMBLES</u>			
	<u>Preambles for Trades refer to "Model Preambles for Trades"</u>			
	<u>TRADE NAMES</u>			
	Any reference to trade names in the Bills of Quantities or Architect's specification or drawings shall deem to mean "or similar and approved"			
	<u>PAVING</u>			
	<u>Existing steel stairs</u>			
1	Carefully remove existing steel stairs overall size 3000 x 1000 x 1500mm high and store on site, re-fix in similar position after paving completed.	No	16	
	<u>Existing paving</u>			
2	Carefully break up and remove existing 60mm thick concrete block paving on sand bedding and store on site for re-use at later stage (measured elsewhere)	m2	637	
3	Remove 200mm Edging paver on cement mortar, clean mortar from brick and store on site for re-use at later stage (measured elsewhere)	m	341	
4	Take from store on stock piles 60mm Thick grey paving blocks, laid on a 20mm thick river sand bedding (elsewhere measured) including cement and sand filling to joints and vibrating, to roadways and parking bays	m2	637	
5	Take from store on stock piles 200mm Edging paver laid with and including 1:3 cement mortar with exposed edges pointed flush	m	341	
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	Bill No. 1			
	Classroom Paving			

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	<u>Excavate to reduce levels under paving etc</u>		
6	Reduced levels under paving etc and stockpile on site	m3	594
	<u>Compaction of surfaces</u>		
7	Scarify earth surface to a depth of 150mm, breaking down over size material and reconsolidate to 90% modified AASHTO density	m2	1,484
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 90% Mod AASHTO density</u>		
8	Under paving	m3	594
	<u>Pavers</u>		
9	60mm Thick grey interlocking concrete paving blocks (S-A) with chamfered edges, laid on a 20mm thick river sand bedding (elsewhere measured) including cement and sand filling to joints and vibrating, to roadways and parking bays	m2	847
10	200mm Edging paver laid with and including 1:3 cement mortar with exposed edges pointed flush	m	837
	<u>20mm River sand</u>		
11	Under paving	m2	1,484
	<u>Approved weed killer (Certificate to be provided before payment)</u>		
12	Hyvar X or other equally approved soil herbicide at a rate of 50 gram/m2 under paving etc.	m2	1,484
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Classroom Paving

SUMMARY

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SECTION 2 - BUILDING WORKS

Bill No. 1

Classroom Paving

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BUILDING WORKS (PROVISIONAL)</u>			
	<u>BILL NO. 2</u>			
	<u>ACCOMMODATION PAVING</u>			
	<u>PREAMBLES</u>			
	<u>Preambles for Trades refer to "Model Preambles for Trades"</u>			
	<u>TRADE NAMES</u>			
	Any reference to trade names in the Bills of Quantities or Architect's specification or drawings shall deem to mean "or similar and approved"			
	<u>PAVING</u>			
	<u>Existing steel stairs</u>			
1	Carefully remove existing steel stairs overall size 3000 x 1000 x 1500mm high and store on site, re-fix in similar position after paving completed.	No	123	
	<u>Existing paving</u>			
2	Carefully break up and remove existing 60mm thick concrete block paving on sand bedding and store on site for re-use at later stage (measured elsewhere)	m2	1,413	
3	Remove 200mm Edging paver on cement mortar, clean mortar from brick and store on site for re-use at later stage (measured elsewhere)	m	1,533	
4	Take from store on stock piles 60mm Thick grey paving blocks, laid on a 20mm thick river sand bedding (elsewhere measured) including cement and sand filling to joints and vibrating, to roadways and parking bays	m2	1,413	
5	Take from store on stock piles 200mm Edging paver laid with and including 1:3 cement mortar with exposed edges pointed flush	m	1,533	
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	Accommodation Paving			

Excavate to reduce levels under paving etc

6	Reduced levels under paving etc and stockpile on site	m3	3,116
---	---	----	-------

Compaction of surfaces

7	Scarify earth surface to a depth of 150mm, breaking down over size material and reconsolidate to 90% modified AASHTO density	m2	7,790
---	--	----	-------

Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 90% Mod AASHTO density

8	Under paving	m3	3,116
---	--------------	----	-------

Pavers

9	60mm Thick grey interlocking concrete paving blocks (S-A) with chamfered edges, laid on a 20mm thick river sand bedding (elsewhere measured) including cement and sand filling to joints and vibrating, to roadways and parking bays	m2	6,377
---	--	----	-------

10	200mm Edging paver laid with and including 1:3 cement mortar with exposed edges pointed flush	m	6,068
----	---	---	-------

11	200 x 200mm thick 15Mpa unreinforced concrete edge beam including excavation, formwork, etc	m	50
----	---	---	----

20mm River sand

12	Under paving	m2	7,790
----	--------------	----	-------

Approved weed killer (Certificate to be provided before payment)

13	Hyvar X or other equally approved soil herbicide at a rate of 50 gram/m2 under paving etc.	m2	7,790
----	--	----	-------

STORMWATER V-SHAPED CHANNEL**Cutting and sloping stormwater berm**

14	Excavate to form triangular shaped stormwater drain 1500mm wide and not exceeding 300mm deep and deposit excavated material on one side of drain including ripping, forming and lightly compacting channel. (Refer to Drawing H913/B201 New Stormwater detail at Admin Building)	m	12
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Carried to Collection**R**

Section No. 2
SECTION 2 - BUILDING WORKS
Bill No. 2
Accommodation Paving

15	Excavate to form triangular shaped stormwater drain 4250mm wide and not exceeding 750mm deep and deposit excavated material on one side of drain including ripping, forming and lightly compacting channel. (Refer to Drawing H913/B201 Concrete Stormwater Channel)	m	51
	<u>In-situ concrete (30Mpa) open stormwater channels having v-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in suitable lengths, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u>		
16	Channel size 1500 x 100mm overall (Refer to Drawing H913/B201 New Stormwater detail at Admin Building)	m	12
17	Channel size 4250 x 150mm overall (Refer to Drawing H913/B201 Concrete Stormwater Channel)	m	51
18	Bell mouthed stormwater outlet, internal size 4250mm wide at inlet, bell mouthed to 5500mm at outlet and 5500mm long, formed with 150mm wide (20Mpa) concrete walls 300mm high, 150mm wide x 500mm thick (20Mpa) concrete ground beam at outlet, 150mm thick (20Mpa) concrete base, provided with nine 300 x 150 x 100mm high hard burt bricks, cast 55mm deep into top surface of base, all concrete finished smooth on all exposed surfaces, including necessary excavation, back filling, ramming and smooth formwork	No	6
	<u>Fabric reinforcement</u>		
19	Type 617 fabric reinforcement in channel	m2	204
	<u>BERMS</u>		
	<u>Open face excavation in earth over sloping site</u>		
20	Excavate in all material to form berms and stockpile on site including all haulage	m3	143
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site including haulage not exceeding 500m from perimeter of excavations or stock piles compacted in layers not exceeding 150mm to 93% modified AASHTO density</u>		
21	Fill to Berms	m3	143
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SECTION 2 - BUILDING WORKS

Bill No. 2

Accommodation Paving

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Section No. 2

SECTION 2 - BUILDING WORKS

Bill No. 2

Accommodation Paving

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BUILDING WORKS (PROVISIONAL)</u>			
	<u>BILL NO. 3</u>			
	<u>SKIDPAD AND SHOOTING RANGE</u>			
	<u>PREAMBLES</u>			
	<u>Preambles for Trades refer to "Model Preambles for Trades"</u>			
	<u>TRADE NAMES</u>			
	Any reference to trade names in the Bills of Quantities or Architect's specification or drawings shall deem to mean "or similar and approved"			
	<u>ALTERATIONS</u>			
	<u>Ironmongery</u>			
1	Carefully remove mirror, size 450 x 600mm high from plastered walls, repair finishes and prepare to receive new (elsewhere measured)	No	8	
2	Take off and remove existing chromium plated toilet roll holders plugged to plastered brick walls and repair wall faces and prepare to receive new (elsewhere measured)	No	10	
3	Take off and remove existing chromium plated towel rail 1500mm long plugged to plastered brick walls and repair wall faces and prepare to receive new (elsewhere measured)	No	4	
	<u>Plumbing and Drainage</u>			
4	Cut through, take off and remove existing galvanised or copper piping not exceeding 50mm diameter, including fittings and brackets from roof space, plastered walls, etc., cut back and seal off piping into walls and repair finished faces	m	88	
5	Cut through, take off and remove existing 100mm cast iron piping, including fittings and brackets from plastered walls, and repair finished faces where necessary	m	40	
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6	Cut through, take off and remove existing 40mm PVC piping, including fittings and brackets from plastered walls, and repair finished faces where necessary	m	44
7	Ditto, but for 50mm pipes	m	22
8	Ditto, but for 110mm pipes	m	33
9	Ditto, but for 110mm Bent access pan connector	No	10
10	Ditto, but existing vitreous china wash hand basin	No	8
11	Take off and remove from plastered brick walls existing vitreous china low-level water closet, complete with cistern, fittings, flush pipe, water pipes (sealed off into walls), etc. and repair finished faces	No	10
12	Ditto, but for urinal	No	4

IRONMONGERY

Bathroom Fittings

13	Franke Rodan RODX600 0,8mm thick Grade 304 18/10 satin finished stainless steel paper towel dispenser (code: 2120099), size 275 x 355 x 112mm deep with capacity of 500 to 800 towels, plugged and screwed to wall with stainless steel screws. Installed strictly to manufacturers specifications	No	2
14	Franke Rodan RODX605 0,8mm thick satin finished stainless steel waste bin (Code: 2120097), size 355 x 168 x 460mm high with capacity of 23 litres and cylinder lock and standard Franke key, plugged and screwed to the wall with stainless steel screws or similar approved	No	2
15	Franke Rodan RODX619 0,8mm thick satin finished stainless steel soap dispenser (Code: 2120095), size 200 x 85 x 140mm high with 1 litre capacity, front push button, cylinder lock and Franke standard key, plugged and screwed to the wall with stainless steel screws or similar approved	No	4
16	Franke Rodan RODX672 0,8mm thick satin finished stainless steel double toilet roll holder with spindle system (Code: 2120101), size 144 x 138 x 301mm high for 2 rolls maximum 120mm diameter with cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws.	No	10

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

17 Mirror 450 x 600mm high with four screws

No

8

INTERNAL PLUMBING AND DRAINAGE

SUPPLEMENTARY PREAMBLES

Concrete pipes

Pipes shall be jointed with interlocking joints

UPVC pipes and fittings

Soil, waste and vent pipes and fittings shall be tempered, chemical resistant pipes with butt welded joints

UPVC pressure pipes and fittings

Pipes for water and fire supply shall be High Impact uPVC of the Class stated

Pipes shall have cast iron clamped joints. Fittings shall be galvanised mild steel with clamped joints

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, Capillary solder fittings shall comply with ISO 2016.

Fixing of pipes

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

Lead pipes and fittings

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

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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

Wire gratings

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions and the Engineer's drawings.

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

SABS 1200 L: Medium-pressure pipelines

SABS 1200LD: Sewers

SABS1200LE: Stormwater drainage

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

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 1200LB : Bedding (Pipes)

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

Steel sectional water tanks

Tanks shall comply with SABS CKS 114

Petrolatum anti-corrosion tape

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc

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

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Paper lagging

Prices for piping must include for all piping not exceeding 30mm to be wrapped with two layers of stout brown paper and tied with wire prior to building in

NOTE: IT IS A STRICT CONDITION OF THIS PLUMBING CONTRACT THAT THE CONTRACTOR SHOULD CONDUCT QUALITY CONTROL TESTS AND INSPECTIONS ON AN ONGOING BASIS

SANITARY FITTINGS, TAPS ETC

NOTE: All sanitary fittings shall be sealed next to walls, fitting sides and shelves with an approved type non-fungal sustaining white silicon

White glazed vitreous china

18	Vaal Sanitaryware Hibiscus vitreous china wall hung basin colour White (Code: 702303WH), overall size 510 x 405mm with two tapholes including integrated overflow and chainstay hole, bolted to wall with 2No.10mm bolts (Code: 8448Z000) and sealed with silicone sealant where basin meets wall.	No	8
19	Daisy White vitreous china semi close coupled washdown suite comprising 90° outlet open rim pan (product code 751400) and matching 9 litre front single flush cistern (product code 710532) including lid, fitments and flushpipe elbow, including lid and fitments with heavy duty seat.	No	10
20	Vaal Sanitaryware 600 x 385 x 380mm Lavatera white vitreous china wall mounted urinal (Code: 705427WH) including 38mm chromium plated domical grating (Code: 8787Z0) and chromium plated back inlet spreader (Code: 7054Z2), fixed on and including two hanger brackets (Code: 8127Z0).	No	4

WASTE UNIONS, ETC**Chromium plated**

21	32mm Slotted waste (Code: 303) with 62mm diameter flange, 80mm long shank with backnut, anti-theft plug (code: 309-32)	No	8
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TRAPS, ETC

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Chromium plated

22	40mm Deep seal bottle trap with outlet for 50mm PVC (code: 345/50)	No	8
23	40mm Deep seal bottle trap with outlet for 50mm PVC (code: 365/50)	No	4

TAPS, VALVES, ETC**Sundries**

24	Cobra Watertech Stella Chrome bibtap (Code: 3314ST-15), manufactured in accordance with SANS 226 Type 2, installed in accordance with the manufacturers recommendations.	No	16
25	Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: KF8.112 with non-hold open feature, galvanised steel undertile box with stainless steel faceplate and chasis, palm press button, rubber pan connector and 20mm "Ball-o-stop" control inlet, installed in accordance with the manufacturer's recommendations.	No	4
26	15mm Chrome ball type angle valve (Code: 832/350F). Including 350mm braided flexi hose	No	26

SANITARY PIPEWORK**uPVC Soil and waste pipes for use above ground according to SABS 967**

27	50mm Pipe	m	185
28	50mm Vent Pipe	m	4

Extra over uPVC pipes for fittings:

29	50mm Bend	No	55
30	50mm Access bend	No	23
31	50mm Junction	No	15
32	50mm Access junction	No	19
33	110mm - 50mm Reducing Junction	No	10
34	110mm Straight pan connector	No	10

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35	110mm Rodding eye	No	10
	<u>Gulleys</u>		
36	Gulley not exceeding 1m deep to invert comprising 110mm diameter uPVC gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating for, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in cement mortar, including 100mm gulley head	No	2
	<u>WATER SUPPLY</u>		
	<u>Mepla Pipes</u>		
37	20mm Pipes	m	90
38	20mm Pipes chased into brick walls including all necessary repair work	m	56
39	26mm Pipes	m	44
40	26mm Pipes chased into brick walls including all necessary repair work	m	32
41	32mm Pipes	m	28
42	32mm Pipes chased into brick walls including all necessary repair work	m	20
43	40mm Pipes	m	18
44	50mm Pipes	m	26
	<u>Extra over Mepla pipes for fittings</u>		
45	20mm Fittings	No	101
46	26mm Fittings	No	56
47	32mm Bend	No	6
48	32mm Tee	No	2
49	32mm to 20mm reducer	No	4
50	32mm to 26mm reducer	No	2
51	32mm to 20mm reducing tee	No	2
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52	32mm to 26mm reducing tee	No	2
53	40mm Bend	No	2
54	40mm Tee	No	2
55	40mm to 26mm reducing tee	No	2
56	40mm to 32mm reducing tee	No	3
<u>Taps, Valves, etc.</u>			
57	20mm Brass Shut- off valve jointed to copper pipe including adaptors	No	2
58	26mm Brass Shut- off valve jointed to copper pipe including adaptors	No	2
59	32mm Brass Shut -off valve jointed to copper pipe including adaptors	No	2
60	40mm Brass Shut -off valve jointed to copper pipe including adaptors	No	2
61	20mm Brass adjustable PRV with pressure gauge to copper pipe including adaptors	No	2
62	26mm Brass adjustable PRV with pressure gauge to copper pipe including adaptors	No	2
63	32mm Brass adjustable PRV with pressure gauge to copper pipe including adaptors	No	2
64	40mm Brass adjustable PRV with pressure gauge to copper pipe including adaptors	No	2
65	26mm Brass spring loaded non- return valve to copper pipe including adaptors	No	2
66	32mm Brass spring loaded non- return valve to copper pipe including adaptors	No	2
67	40mm Brass spring loaded non- return valve to copper pipe including adaptors	No	2

LAGGING**Carried to Collection**

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Approved pipe insulation suitable for exterior application

68	Insulation to 20mm pipe and couplings	m	18
69	Insulation to 26mm pipe and couplings	m	16

FIRE EQUIPMENT, ETC ON WALL MOUNTED HANGERS

70	4.5kg Dry chemical powder fire extinguisher including hanger fixed to and including timber backing board.	No	8
71	5kg CO2 fire extinguisher including standard plastic cabinet	No	4

TESTING

72	Testing internal water and sewer pipe system		Item
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PAINTWORK**ON FLOATED PLASTER**

Ensure that surfaces are dry, sound and clean. Remove any oil, grease and other contaminants with Plascon Metalcare Aquasolv Degreaser (GR1) working it well into affected areas with bristle broom or brush. Leave for 20 minutes to react, then rinse thoroughly with fresh water to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR1) using high pressure water jet or scrubbing with brush or broom. Allow to dry completely. Remove fungi and algae by scrubbing with a solution of household bleach (3.5% sodium hypochlorite) 1 part bleach to 2 parts water by volume. Leave for 1 hour, then brush off with a bristle brush. Rinse thoroughly with tap water to remove all traces of bleach and allow to dry. Fill cracks and other surface defects with the appropriate Polycell filler. Prime with one coat of Professional Gypsum and Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats of Wall and All (WAA) with 2 hours drying time between coats, for a maintenance cycle of 10 years. All to manufacturer's detail specifications. Colour to Architect's approval

73	On existing plastered internal walls	m2	251
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ON FIBRE CEMENT

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Prepare surfaces and remove all loose material. Prime with one coat of Plascon Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats of Super Acrylic Polvin (EPL/TAP) with 1 hours drying time between coats, for a maintenance cycle of 7 years. All to manufacturer's detail specifications. Colour to Architect's approval

74	On existing fibre cement ceilings	m2	126
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ON METALWORK

Sand down, clean and prepare surface and remove all loose material. Apply galvanised iron cleaner (GIC 1) to all bare galvanised areas. Surface to be dry, sound and clean. Apply galvanised iron cleaner (GIC 1) to all bare galvanised areas. Allow to react for 1 minute and rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water break-free. Prime with one coat of galvanised iron primer (GIP 1) with an overcoating time of 2 hours, apply undercoat and finish with two coats of premium quality satin finish non-drip enamel paint with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment. Colour to Architects approval.

75	On existing door frames	m2	9
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76	On existing window frames and burglar bars (both sides measured over the full flat area)	m2	24
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ON WOOD

Stop, fill, sand down and prepare wood surface. Prime with one coat of Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats of Wall and All (WAA) with 2 hours drying time between coats. All to manufacturer's detail specifications. Colour to Architect's approval

77	On existing doors	m2	8
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EXTERNAL PLUMBING AND DRAINAGE

NOTE :All Civil works to be carried out in accordance with the standardised SABS 1200 specifications

SOIL DRAINAGE

EARTHWORKS

Excavations in earth

78	For pipes not exceeding 1m deep	m3	138
79	For pipes exceeding 1m and not exceeding 2m deep	m3	384
80	For pipes exceeding 2m and not exceeding 3m deep	m3	329

Extra over excavations for carting away

81	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	311
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BEDDING, BACKFILLING, ETC

Filling from excavations including sifting and compaction to 93% MOD AASHTO density for backfilling to

82	Pipe trenches	m3	285
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Provide bedding (Blanket) from trench excavations in layers not exceeding 150mm thick, compacted to 93% MOD AASHTO density

83	Selected granular material	m3	111
84	Selected fill material	m3	145

Carted on material from commercial sources including sifting and compaction to 93% MOD AASHTO density for backfilling to

85	Selected granular material	m3	85
86	Selected fill material	m3	213

PIPEWORK

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	<u>uPVC pipes Heavy duty Class 34 for use under ground in accordance with SABS 791 with uPVC couplings (Excavation, bedding material, back filling, compaction, etc. elsewhere)</u>		
87	110mm Diameter pipe not exceeding 1m deep	m	195
88	110mm Diameter pipe exceeding 1m and not exceeding 2m deep	m	307
89	110mm Diameter pipe exceeding 2m and not exceeding 3m deep	m	171
	<u>Extra over uPVC pipes for fittings</u>		
90	110mm Bend	No	23
91	110mm End cap	No	5
92	110mm Junction	No	32
93	110mm Access Junction	No	14
94	160mm Reducing Junction	No	3
	<u>Sundries</u>		
95	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in intermediate rock	m3	85
96	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	43
97	Mass concrete Class C encasing to horizontal pipes	m3	8
98	Mass concrete Class C encasing to vertical pipes	m3	5
	<u>Connect to existing sewer line</u>		
99	Search, find existing 110mm uPVC pipe, excavate in earth as necessary for and cut in existing pipe for and including precast concrete manhole, cover, etc. not exceeding 2m deep internally, including all precast rings, concrete bottom slab and channels, cover slabs, finishes, etc.	No	1
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100	Search, find existing 160mm uPVC pipe, excavate in earth as necessary for and cut in existing pipe for and including precast concrete manhole, cover, etc. not exceeding 2m deep internally, including all precast rings, concrete bottom slab and channels, cover slabs, finishes, etc.	No	1
<u>MANHOLES, ETC</u>			
<u>Precast concrete manholes, 1000mm internal diameter, complete including all necessary excavations, precast manholes rings, in situ concrete bottom slabs (size 1430mm diameter) laid to falls (min thickness of slab 150mm and maximum thickness 350mm) with 20mm thick concrete topping, 150mm thick medium duty precast roof slab, channels, finishes, step irons at 300mm centres, cast iron double seal manhole cover and frame (cover and frame elsewhere measured), etc. all joints sealed with 1:3 cement sand mix caulked in ring joints</u>			
101	Manhole not exceeding 1m deep	No	7
102	Manhole exceeding 1m and not exceeding 2m deep	No	5
103	Manhole exceeding 2m and not exceeding 3m deep	No	3
<u>Gratings, covers, etc</u>			
104	SABS Type 4 medium duty cast iron double seal manhole cover and frame, with frame bedded in 3:1 cement mortar and cover sealed in tallow	No	15
<u>WATER SUPPLIES</u>			
<u>EARTHWORKS</u>			
105	For pipes not exceeding 1m deep	m3	650
<u>Extra over excavations for carting away</u>			
106	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	238
<u>BEDDING, BACKFILLING, ETC</u>			
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	<u>Filling from excavations including sifting and compaction to 93% MOD AASHTO density for backfilling to</u>		
107	Pipe trenches	m3	218
	<u>Provide bedding (Blanket) from trench excavations in layers not exceeding 150mm thick, compacted to 93% MOD AASHTO density</u>		
108	Selected granular material	m3	85
109	Selected fill material	m3	162
	<u>Carted on material from commercial sources including sifting and compaction to 93% MOD AASHTO density for backfilling to</u>		
110	Selected granular material	m3	65
111	Selected fill material	m3	163
	<u>PIPEWORK</u>		
112	Sterilizing all water pipes prior to installation in strict accordance to the methods and specifications in SANS10252-1		Item
	<u>HDPE (PN20) pipes in trenches for use under ground in accordance with SABS 791 with compression (Excavation, bedding material, back filling, compaction, etc. elsewhere)</u>		
113	50mm Diameter pipe not exceeding 1m deep	m	1,050
	<u>Extra over for HDPE fittings:</u>		
114	50mm Bend	No	200
115	50mm Tee	No	125
116	50mm Reducer	No	111
117	50 x 32mm Reducing tee	No	91
	<u>Taps, Valves, etc.</u>		
118	50mm Brass Shut -off valve jointed to copper pipe including adaptors	No	6
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119	50mm Brass adjustable PRV with pressure gauge to copper pipe including adaptors	No	2
120	50mm Brass spring loaded non- return valve to copper pipe including adaptors	No	2
121	50mm Scour Valve to copper pipe including adaptors	No	2
122	50mm Water flow meter to copper pipe including adaptors	No	2
	<u>Valve box 600mm internal diameter on 300 x 300 x 100mm concrete base 15Mpa, 600 x 600 x 175mm concrete cover slab 15Mpa including cover and frame valve box Type 7 cast into frame, with 160mm PVC sleeve 600mm long to valve.</u>		
123	Valve Box not exceeding 1m deep	No	3
	<u>TESTING</u>		
124	Testing external water and sewer pipe system		Item

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SECTION 2 - BUILDING WORKS

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Skidpad and Shooting Range

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	<u>BUILDING WORKS (PROVISIONAL)</u>			
	<u>BILL NO. 4</u>			
	<u>GUTTERS AND DOWNPIPES</u>			
	<u>PREAMBLES</u>			
	<u>Preambles for Trades refer to "Model Preambles for Trades"</u>			
	<u>TRADE NAMES</u>			
	Any reference to trade names in the Bills of Quantities or Architect's specification or drawings shall deem to mean "or similar and approved"			
	<u>RAINWATER DISPOSAL</u>			
	<u>0.8mm Ogee profile pre-coated Aluminium / Colorbond seamless gutter including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by bolt fixed external aluminium hangers at 600mm centres. Installed strictly according to manufacturer's specifications. Colours (Non-standard) to Architect's approval.</u>			
1	150 x 100mm Eaves gutters to falls, with front edge, on and including gutter brackets fixed to steel roofs	m	298	
2	Extra over eaves gutter for outlet with nozzle for 100 x 75mm pipe	No	42	
3	Extra over 150 x 100mm eaves gutter for stopped end	No	45	
	<u>0.6mm Ogee profile pre-coated Aluminium / Colorbond rectangular fluted downpipes fixed to steel columns with pre-painted downpipe cleats using approved fixing anchor. Installed strictly according to manufacturer's specifications. Colours (Non-standard) to Architect's approval.</u>			
4	100 x 75mm Rainwater downpipes, fixed to steel columns	m	135	
5	Extra over for shoe	No	45	
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	Gutters and Downpipes			

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Temporary barricades, screens, etc including removal

5	1800mm High diamond mesh fence to making safe sections during new construction, to comply with all health and safety regulations	m	211
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CLEARVU FENCING**Site Clearance**

6	Allow for clearing site for the width of 1 000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling	m	2,929
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Excavation, Filling, etc

7	Excavations not exceeding 2m deep for underdig	m3	251
8	Backfilling to under dig obtained from the excavations	m3	251

Cochrane ClearVu high density anti-climbing and anti-cut pressed mesh panel fencing, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires with hot dipped galvanized coating with aperture size 76,2mm x 12,7mm and reinforced with 4 x 50mm deep V formation horizontal recessed bands with 2 x 70° x 75mm flanges along sides and 2 x 30° x 50mm flanges along top, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking posts including Locking Recess Mechanism at maximum 3,305m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 450 x 450 x 600mm deep. All in accordance with manufacturer's specification.

9	600mm High under dig	m	1,393
10	2400mm High fencing	m	1,393
11	100mm High toughened steel Shark Tooth spike shall be affixed to panel edge, internally at 150 mm intervals using Anti-vandal bolts.	m	1,393

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Fencing

Cochrane ClearVu Razor Mesh High Security fencing. Razor mesh shall be installed to posts with 2.5mm high-tensile (1500mmPA) galvanised core wires, spacing as specified by cochrane. Razor mesh aperture shall be standard density as specified by Cochrane. Razor mesh shall be affixed to posts over core wires as specified by Cochrane. Post shall be 100mm Straining posts with 50mm intermediate posts. Post shall be sealed with a galvanised steel cap and fitted with a 6 mm base plate, posts bedded in 15MPa concrete bases size 450 x 450 x 600mm deep. Razor Mesh, Posts and all fixtures shall be hot dipped galvanized. All in accordance with manufacturer's specification.

12	2400mm High fencing	m	1,536
13	Extra over for above fence for gate 900 x 2100m high including hinges, spring latch with catch, etc	No	2

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SECTION 2 - BUILDING WORKS
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Fencing

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SECTION 2 - BUILDING WORKS

Bill No. 5

Fencing

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SECTION 2 - BUILDING WORKS

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2 Accommodation Paving

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3 Skidpad and Shooting Range

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4 Gutters and Downpipes

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5 Fencing

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Section No. 2

SECTION 2 - BUILDING WORKS

**Connection of Existing Wiring Circuits
inside existing buildings at the shooting
range**

6	Connection of all existing light, switch socket outlet and AC circuits in the existing Admin Building at the Shooting Range			SUM
7	Connection of all existing light circuits in the existing ablution building at the shooting range			SUM

WIREWAYS FOR INCOMING CABLES

Trunking

PG = Pre-galvanised, HDG = Hot dipped galvanised,
PCS = Powder coated steel

All wireways to include all supports and fixing materials

Trunking, supported on inner and outer wall of building

8	Supply PG 76 x 127mm high, c/w PVC cover	m	5.00	
9	Install PG 76 x 127mm high, c/w PVC cover	m	5.00	

Trunking fittings

Trunking, radiused bends

10	Supply PG 76 x 127mm high, c/w PVC cover	No	1.00	
11	Install PG 76 x 127mm high, c/w PVC cover	No	1.00	

LOW VOLTAGE DISTRIBUTION

**PVC.SWA.PVC Low halogen 600/1000V
cable**

Supply & delivery of cable

12	120mm ² , 4 core Aluminium	m	290.00	
13	4mm ² , 3 core	m	25.00	

Installation of cable

14	120mm ² , 4 core Aluminium	m	290.00	
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Section No. 3
SECTION 3 - ELECTRICAL INSTALATION
Bill No. 1
LV Installation to Shooting Range

15	4mm ² , 3 core	m	25.00
	<u>Termination of cable</u>		
16	120mm ² , 4 core Aluminium	No	2.00
17	4mm ² , 3 core	m	2.00
	<u>Earthing and bonding</u>		
	<u>Earth conductors Bare copper</u>		
18	95mm ²	m	90.00
	<u>Trenching</u>		
	<u>Trenching in pickable soil</u>		
19	Trenching- 500mm wide x 500mm deep hand pick able soil	m3	80.00
20	Extra over for soft rock	m3	7.00
	<u>Bedding</u>		
21	Supply imported river sand backfilling under and around cables	m3	20.00
22	Install imported backfilling under and around cables	m3	20.00
	<u>Core Drill beneath existing roadway install sleeves, incl. connectors and sealing of ends</u>		
23	Core Drill beneath existing tar roadway	m	7.00
24	Supply & install 160mm diameter PVC sleeve under roadway	m	7.00
25	Supply & install cable danger tape	m	290.00
	<u>Miscellaneous</u>		
	<u>Labelling</u>		
26	Labelling of all cables as specified	Item	
27	Dielectric and insulation resistance tests on all LV cables	Item	
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LIGHTING INSTALLATION**Conduits, incl. all fixing materials, bends, terminations and draw and extension boxes****Surface mounted conduits**

28	Supply 25mm diameter, PVC	m	250
29	Install 25mm diameter, PVC	m	250

Conduit outlet boxes**Surface mounted boxes**

30	60mm PVC round boxes, c/w cover plate	No	25
31	119 x 83 x 50mm, powder coated steel box	No	1

Wiring**Surfix cabling**

32	Supply 2.5mm ² , 2 core plus earth	m	250
33	Install 2.5mm ² , 2 core plus earth	m	250
34	Terminations for 2.5mm ² , 2 core plus earth	No	116

16A Light switches, c/w standard steel cover plate

35	Single lever, 2 way	No	1.00
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Luminaires**Surface / suspended luminaires**

36	Supply type S14 - Rubicon Saxa 14-83-40-54W	No	48.00
37	Install type S14	No	48.00

Flood lights

38	Supply type F4 - 80W LED floodlight, 10,000lm output similar to LEDvance FL PFM	No	10.00
39	Install type F4	No	10.00

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LV Installation to Shooting Range

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SECTION 3 - ELECTRICAL INSTALATION

Bill No. 1

LV Installation to Shooting Range

Connection of Existing Wiring Circuits inside the existing buildings at the Skid Pan

7	Connection of all existing circuits in the existing Pump Building at the Skid Pan			SUM
8	Connection of all existing light circuits in the existing male and female ablution building at the Skid Pan			SUM
9	Connection of all existing light and socket circuits in the existing Observer Office at the Skid Pan			SUM

General

10	Issue electrical COC for new electrical installation supplied from the three new Distribution Boards	No	3.00	
11	Issue revised electrical COC for new electrical installation supplied from the two existing Distribution Boards Main MLV and DB-Skid Pan Admin Building	No	2.00	

WIREWAYS FOR INCOMING CABLES

Trunking

PG = Pre-galvanised, HDG = Hot dipped galvanised,
PCS = Powder coated steel

All wireways to include all supports and fixing materials

Trunking, supported on inner and outer wall of building

12	Supply PG 76 x 127mm high, c/w PVC cover	m	10.00	
13	Install PG 76 x 127mm high, c/w PVC cover	m	10.00	

Trunking fittings

Trunking, radiused bends

14	Supply PG 76 x 127mm high, c/w PVC cover	No	3.00	
15	Install PG 76 x 127mm high, c/w PVC cover	No	3.00	

LOW VOLTAGE DISTRIBUTION

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SECTION 3 - ELECTRICAL INSTALATION
Bill No. 2
LV Installation to Skid Pan Buildings

PVC.SWA.PVC Low halogen 600/1000V cable**Supply & delivery of cable**

16	120mm ² , 4 core Aluminium	m	350.00
17	4mm ² , 3 core	m	50.00

Installation of cable

18	120mm ² , 4 core Aluminium	m	350.00
19	4mm ² , 3 core	m	50.00

Termination of cable

20	120mm ² , 4 core Aluminium	No	2.00
21	4mm ² , 3 core	m	8.00

Earthing and bonding**Earth conductors Bare copper**

22	95mm ²	m	350.00
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Trenching**Trenching in pickable soil**

23	Trenching- 500mm wide x 500mm deep hand pick able soil	m3	80.00
24	Extra over for soft rock	m3	5.00

Bedding

25	Supply imported river sand backfilling under and around cables	m3	16.00
26	Install imported backfilling under and around cables	m3	16.00

Drill beneath existing roadway install sleeves, incl. connectors and sealing of ends

27	Core Drill beneath existing tar roadway	m	10.00
28	Supply & install 160mm diameter PVC sleeve under roadway	m	10.00

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Bill No. 2
LV Installation to Skid Pan Buildings

29	Supply & install cable danger tape	m	290.00
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Miscellaneous

Labelling

30	Labelling of all cables as specified	Item	
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31	Dielectric and insulation resistance tests on all LV cables	Item	
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LV Installation to Skid Pan Buildings

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LV Installation to Skid Pan Buildings

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LV Installation to Skid Pan Buildings

General

9 Issue new CO for DB-Kitchen and DB-Comp

No

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Kitchen Lighting

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Kitchen Lighting

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