



The quantities or specifications contained in these bills of quantities are not to be used for the calculation or ordering of materials.

**PREAMBLES FOR TRADES**

The General Preambles for Trades (2017 edition) as published by The Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Where Architect's or Engineer's specifications or drawings (where issued) are in conflict with the above Preambles, etc, the Architect's or Engineer's specification and drawings, as the case may be, are to take preference

Where the drawings and Architect's or Engineer's specifications are in conflict, the Contractor is to obtain written clarification from the Principal Agent prior to the closing of tenders

The Contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

- 1 The tenderer shall allow for his own preliminary and/ or overhead costs as required for execution of the contract such as the following and any other additional items the tenderer deems necessary for the execution of works.

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**PRICING OF PRELIMINARIES**

If option A as set out in clause B10.3.1 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "V" or "T" as the case may be below such item, where:

- F - An amount which shall not be varied (Fixed)
- V - An amount which shall be varied in proportion to the contract value as compared with the contract sum (Value)
- T - An amount which shall be varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the Contractor is not entitled to adjustment of the contract value in terms of the agreement (Time)

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

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**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

2 1.0 Definitions and Interpretation

1.0 Clause

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

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

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

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

Clause 1.1 Definition of "**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 in terms of the legislation of the Republic of South Africa, and in particular:

- (a) In respect of interest owed by the **employer**, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and
- (b) in respect of interest owed to the **employer**, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.

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EClause 1.6.4 is amended by replacing it with the following:

No clause

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**OBJECTIVE AND PREPARATION**

3 2.0 Offer, Acceptance and Performance

F: ..... V: ..... T:  
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4 3.0 Documents

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

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

5 4.0 Design Responsibility

F: ..... V: ..... T:  
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6 5.0 Employer's Agent

5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4

F: ..... V: ..... T:  
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7 6.0 Site Representative

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8 7.0 Compliance with Regulations

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

See also clause C10 of Section C - Specific Preliminaries

F: ..... V: ..... T:  
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9 8.0 Works Risk

F: ..... V: ..... T:  
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10 9.0 Indemnities

F: ..... V: ..... T:  
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11 **10.0 WORKS INSURANCES**

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

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- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

**10.6 Injury to Persons or loss of or damage to Properties**

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

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

**10.7 High risk insurance**

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

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**10.7.1 Damage to the works**

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

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

**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

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**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

F: ..... V: ..... T:  
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12 11.0 Liability Insurances

F: ..... V: ..... T:  
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13 12.0 Effecting Insurances

F: ..... V: ..... T:  
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14 13.0 *No clause*

N/A

15 **14.0 SECURITY**

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 submitted by the **contractor** to the **employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

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

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

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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

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

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

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

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

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

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

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

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

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

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

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

F: ..... V: ..... T:  
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**EXECUTION**

16 **15.0 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days of commencement date**

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

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.2 and 15.1.4

F: ..... V: ..... T:  
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17 **16.0 Access to the Works**

F: ..... V: ..... T:  
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18 **17.0 Contract Instructions**

F: ..... V: ..... T:  
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19 **18.0 Setting out of the Works**

F: ..... V: ..... T:  
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20	19.0 Assignment F: ..... V: ..... T: .....	Item	
21	20.0 Nominated Subcontractors 20.1.3 is amended by replacing it with the following: Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums F: ..... V: ..... T: .....	Item	
22	21.0 Selected Subcontractors 21 is amended by replacing it with: No Clause F: ..... V: ..... T: .....	N/A	
23	22.0 Employer's Direct Contractors F: ..... V: ..... T: .....	Item	
24	23.0 Contractor's Domestic Subcontractors F: ..... V: ..... T: .....	Item	
<b><u>COMPLETION</u></b>			
25	24.0 Practical Completion F: ..... V: ..... T: .....	Item	
26	25.0 Work's Completion F: ..... V: ..... T: .....	Item	
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27 26.0 Final Completion  
 F: ..... V: ..... T:  
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28 27.0 Latent Defects Liability Period  
 F: ..... V: ..... T:  
 .....

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29 28.0 Sectional Completion  
 F: ..... V: ..... T:  
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30 29.0 Revision of Date for Practical Completion  
 F: ..... V: ..... T:  
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31 30.0 Penalty for Noncompletion  
 F: ..... V: ..... T:  
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**PAYMENT**

32 **31.0 INTERIM PAYMENT TO THE CONTRACTOR**

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

**Alternative A**

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

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

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

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

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

**Alternative B**

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

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

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

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

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

Clause 31.12 is amended by deleting the following:

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

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33 32.0 Adjustment to the Contract Value

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**"

F: ..... V: ..... T:  
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34 **33.0 RECOVERY OF EXPENSE AND LOSS**

Clause 33.2 is amended by adding the following clauses:

33.2.9 the **contractor's** failure or neglect to commence with the **works** on the dates prescribed in the contract

33.2.10 the **contractor's** failure or neglect to proceed with the **works** in terms of the contract

33.2.11 the **contractor's** failure or neglect for any reason to complete the **works** in accordance with the contract

33.2.12 the **contractor's** refusal or neglect to comply strictly with any of the conditions of contract or any **contract instructions** and/or orders in writing given in terms of the contract

33.2.13 the **contractor's** estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

F: ..... V: ..... T:  
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35 34.0 Final Account and Final Payment

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

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36 35.0 Payment to other Parties  
 F: ..... V: ..... T:  
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**CANCELLATION**

**36.0 CANCELLATION BY EMPLOYER -  
 CONTRACTOR'S DEFAULT**

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

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

F: ..... V: ..... T:  
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37 **37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

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

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38 **38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT**

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

F: ..... V: ..... T:  
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39 39.0 Cancellation - Cessation of the Works

F: ..... V: ..... T:  
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40 40.0 Dispute Settlement

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

40.6 is amended by removing the reference to:

No 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

F: ..... V: ..... T:  
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**SUBSTITUTE PROVISIONS**

41 41.0 State Clauses

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**CONTRACT VARIABLES**

**THE SCHEDULE (DPW04EC)**

42 42.0 E-TENDER INFORMATION

Tenderers are referred to section "C1.2 Contract Data" on page 56 for variables pertaining to this contract

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**SECTION B: JBCC PRELIMINARIES**

**1.0 DEFINITIONS AND INTERPRETATION**

43 1.1 Definitions and interpretation  
 F: ..... V: ..... T:  
 .....

Item

**2.0 DOCUMENTS**

44 2.1 Checking of documents  
 F: ..... V: ..... T:  
 .....

Item

45 2.2\* Provisional bills of quantities  
 F: ..... V: ..... T:  
 .....

Item

46 2.3\* Availability of construction documentation  
 F: ..... V: ..... T:  
 .....

Item

47 2.4\* Interests of agents  
 F: ..... V: ..... T:  
 .....

Item

48 2.5 Priced documents  
 F: ..... V: ..... T:  
 .....

Item

49 2.6 Tender submission  
  
 Clause 2.6 is amended by replacing “JBCC Form of  
 Tender” with “Form of Offer and  
 Acceptance (DPW07)”  
  
 F: ..... V: ..... T:  
 .....

Item

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**3.0 THE SITE**

50 3.\*1 Defined works area  
 F: ..... V: ..... T:  
 .....

Item

51 3.2\* Geotechnical investigation  
 F: ..... V: ..... T:  
 .....

Item

52 3.3 Inspection of the site  
 Tenderers shall complete the Site Inspection Certificate (DPW16 EC) included in the tender documents and return the same with the tender submission.  
 F: ..... V: ..... T:  
 .....

Item

53 3.4\* Existing premises occupied  
 F: ..... V: ..... T:  
 .....

Item

54 3.5\* Previous work - dimensional accuracy  
 F: ..... V: ..... T:  
 .....

Item

55 3.6 Previous work - defects  
 F: ..... V: ..... T:  
 .....

Item

56 3.7\* Services - known  
 F: ..... V: ..... T:  
 .....

Item

57 3.8 Services - unknown  
 F: ..... V: ..... T:  
 .....

Item

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58 3.9\* Protection of trees  
 F: ..... V: ..... T:  
 .....

Item

59 3.10 Articles of value  
 F: ..... V: ..... T:  
 .....

Item

60 3.11\* Inspection of adjoining properties  
 F: ..... V: ..... T:  
 .....

Item

**4.0 MANAGEMENT OF CONTRACT**

61 4.1 Management of the works  
 F: ..... V: ..... T:  
 .....

Item

62 4.2 Programme for the works  
 F: ..... V: ..... T:  
 .....

Item

63 4.3 Progress meetings  
 F: ..... V: ..... T:  
 .....

Item

64 4.4 Technical meetings  
 F: ..... V: ..... T:  
 .....

Item

65 4.5 Labour and plant records  
 F: ..... V: ..... T:  
 .....

Item

**5.0 SAMPLES, SHOP DRAWINGS AND  
 MANUFACTURERS' INSTRUCTIONS**

66 5.1 Samples of materials  
 F: ..... V: ..... T:  
 .....

Item

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- 67 5.2 Workmanship samples  
 F: ..... T: ..... V:  
 .....
- 68 5.3 Shop drawings  
 F: ..... V: ..... T:  
 .....
- 69 5.4 Compliance with manufacturers' instructions  
 F: ..... T: ..... V:  
 .....

**6.0 TEMPORARY WORKS AND PLANT**

- 70 6.1 Deposits and fees  
 F: ..... V: ..... T:  
 .....
- 71 6.2\* Enclosure of the works  
 F: ..... V: ..... T:  
 .....
- 72 6.3 Advertising  
 F: ..... V: ..... T:  
 .....
- 73 6.4\* Plant, equipment, sheds and offices  
 F: ..... V: ..... T:  
 .....
- 74 6.5\* Main notice board  
 F: ..... V: ..... T:  
 .....
- 75 6.6\* Subcontractors' notice board  
 F: ..... V: ..... T:  
 .....

Item  
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**7.0 TEMPORARY SERVICES**

76 7.1 Location  
 F: ..... V: ..... T:  
 .....

Item

77 7.2& Water  
 F: ..... V: ..... T:  
 .....

Item

78 7.3& Electricity  
 F: ..... V: ..... T:  
 .....

Item

79 7.4& Telecommunication facilities  
 F: ..... V: ..... T:  
 .....

Item

80 7.5& Ablution facilities  
 F: ..... V: ..... T:  
 .....

Item

**8.0 PRIME COST AMOUNTS**

81 8.1 Responsibility for prime cost amounts  
 F: ..... V: ..... T:  
 .....

Item

**9.0 ATTENDANCE ON N/S SUBCONTRACTORS**

82 9.1 General attendance  
  
 The schedule rates providing for attendance on **nominated subcontractors** and other **contractors**, will be adjusted only if the scope of the work has changed  
  
 F: ..... V: ..... T:  
 .....

Item

83 9.2\* Special attendance  
 F: ..... V: ..... T:  
 .....

Item

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84 9.3 Commissioning - fuel, water and electricity  
 F: ..... V: ..... T:  
 .....

Item

**10.0 FINANCIAL ASPECTS**

85 10.1 Statutory taxes, duties and levies  
 F: ..... V: ..... T:  
 .....

Item

86 10.2 & Payment for preliminaries  
 F: ..... V: ..... T:  
 .....

Item

87 10.3 & Adjustment of preliminaries  
 F: ..... V: ..... T:  
 .....

Item

88 10.4 Payment certificate cash flow  
 F: ..... V: ..... T:  
 .....

Item

**11.0 GENERAL**

89 11.1\* Protection of the works  
 F: ..... V: ..... T:  
 .....

Item

90 11.2\* Protection / isolation of existing / sectionally  
 occupied works  
 F: ..... V: ..... T:  
 .....

Item

91 11.3 Security of the works  
 F: ..... V: ..... T:  
 .....

Item

92 11.4 Notice before covering work  
 F: ..... V: ..... T:  
 .....

Item

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- 93 11.5\* Disturbance  
 F: ..... V: ..... T:  
 .....
- 94 11.6\* Environmental disturbance  
 F: ..... V: ..... T:  
 .....
- 95 11.7 Works cleaning and clearing  
 F: ..... V: ..... T:  
 .....
- 96 11.8 Vermin  
 F: ..... V: ..... T:  
 .....
- 97 11.9 Overhand work  
 F: ..... V: ..... T:  
 .....
- 98 11.10 Instruction manuals and guarantees  
 F: ..... V: ..... T:  
 .....
- 99 11.11 As built information  
 F: ..... V: ..... T:  
 .....
- 100 11.12 Tenant installations  
 F: ..... V: ..... T:  
 .....

Item  
 Item  
 Item  
 Item  
 Item  
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 Item

**12.0 SCHEDULE OF VARIABLES**

12.1 PRE-TENDER INFORMATION  
 12.1.1 Provisional bills of quantities [2.2]  
 YES

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<p>12.1.2 Availability of construction documentation [2.3]</p> <p>YES</p>		
<p>12.1.3 Interests of agents [2.4]</p> <p>N/A</p>		
<p>12.1.4 Defined works area [3.1]</p> <p>Give details and/or refer Architect's site plan drawing no where available</p>		
<p>12.1.5 Geotechnical Investigation [3.2]</p> <p>Geotechnical investigation report where available</p>		
<p>12.1.6 Existing premises occupied [3.4]</p> <p>The existing buildings on the site is occupied by school learners and staff</p>		
<p>12.1.7 Previous work - dimensional accuracy [3.5]</p> <p>N/A</p>		
<p>12.1.8 Previous work - defects [3.6]</p> <p>N/A</p>		
<p>12.1.9 Services - known [3.7]</p> <p>Not known</p>		
<p>12.1.10 Protection of trees [3.9]</p> <p>Trees not being removed must be protected.</p>		
<p>12.1.11 Inspection of adjoining properties [3.11]</p> <p>This also applies to roads and services, etc.</p>		
<p>12.1.12 Enclosure of the works [6.2]</p> <p>No specific requirements</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1          Preliminaries          Bill No. 1          PRELIMINARIES</p>	<p>R</p>	

12.1.13 Offices [6.4.3]

The Contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the Principal Agent, minimum size 6 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times

12.1.14 Main notice board [6.5]

Provide ONE (1) noticeboards, eg:

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. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted "sans serif" lettering

12.1.15 Subcontractors notice board [6.6]

NO

12.1.16 Water [7.2]

Option A (by contractor)

12.1.17 Electricity [7.3]

Option A (by contractor)

12.1.18 Telecommunications [7.4]

Telephone - YES  
 Facsimile - YES  
 Email - YES

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12.1.19 Ablution facilities [7.5]

Option A (by contractor)

12.1.20 Protection of existing/sectionally occupied works [11.2]

Protection is required

YES

12.1.21 Special attendance [9.2]

N/A

12.1.22 Protection of the works [11.1]

No specific requirements

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12.1.23 Disturbance [11.5]

The Contractor shall be responsible for and take all precautions in controlling all forms of pollution during the contract period due to noise, artificial light, wind-blown sand, dust, etc in the dry season and deposits of mud etc in the wet season by whatever means necessary and daily removal of deposits etc, all to the satisfaction of the Principal Agent and any costs, claims, etc will be for the Contractor's account

The surrounding buildings will be occupied and functioning during these works and the Contractor is to ensure that the works are carried out with as little mess and noise as possible and with a minimum of disturbance to adjoining and close buildings and properties and their occupants. The Contractor is to make use of appropriate plant and methods of execution which result in the least possible noise factors. All machinery shall be fully muffled

The Contractor shall keep the site, structures and materials well watered during the operations to prevent dust and shall provide, erect and maintain all temporary tarpaulins, dust and weatherproof screens, barriers and temporary plumbing that may be necessary during the progress of the works

The Contractor shall ensure that the functioning of the existing School is not disturbed or disrupted, except where special arrangements are made with the Principal Agent

The Contractor may not carry out construction operations outside of normal working times without the permission of the Principal Agent

12.1.24 Environmental disturbance [11.6]

No specific requirements

**12.2 POST-TENDER INFORMATION**

12.2.1 Payment of preliminaries

[10.2] Option A or B (post tender)

12.2.2 Adjustment of preliminaries

[10.3] Option A or B (post tender)

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12.2.3 Additional agreed preliminaries items

Details: To be agreed post tender where relevant

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**SECTION C: SPECIFIC PRELIMINARIES**

**Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item**

**C1: CONFIDENTIALITY**

101 The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

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

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

**C2: TRADE NAMES**

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

If prior written approval for an alternative product is not obtained, it shall be deemed that the tenderer the product described has been tendered for

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Item

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**C3: IMPORTED MATERIALS**

103 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.

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

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

**C4: SECURITY CHECK OF PERSONNEL**

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

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

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

**C5: CONTRACT INSTRUCTIONS**

105 Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor

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

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**C6: SITE LEVELS**

106 Before commencement of the works the Contractor shall carry out and provide the Principal Agent for approval a survey of the existing site levels in sufficient detail to enable the preparation of a final account

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

**C7: UNAUTHORISED PERSONS ON SITE**

107 The Contractor shall not permit unauthorised persons onto and workmen to lodge on the site

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

**C8: PLANT AND LABOUR RECORD**

108 At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day and the number, type and capacity of all plant, excluding hand tools, currently used on the works

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

**C9: USE OF LOCAL LABOUR FROM THE EMPLOYER'S AREAS OF OPERATION**

109 It is a requirement of the contract that the work be executed in such a manner as to maximise the use of local labour from the Employer's areas of operation in order to provide the local community with employment opportunities.

The tenderer is to identify all activities for which it is intended to employ workers from the local community and full details thereof are to be provided in the tender documentation

The total value of the work that is to be of a local labour nature may be a consideration in the adjudication process. Once a tender is accepted the activities and number of persons stated in the above-mentioned schedule shall

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become the minimum contractual commitment. In applying the principles set out above, it is a specific requirement of this tender that the successful tenderer employs, in consultation with the Employer's representative, unemployed persons from the ranks of the local communities and the immediate surroundings, who possess the appropriate skills required for a contract of this nature

- In order to achieve the recruitment of local labour, the Employer will establish, a database of unemployed persons, indicating their specialised training, previous experience and employment, etc. The successful tenderer will be required to directly employ suitable persons recruited from the employer's database and ensure that all legislative requirements regarding their employment are complied with and provide the Employer with the necessary documentary proof, if required

- The Contractor is required to produce weekly records suitably detailed to enable the Employer's representative to monitor the achievement of the required local labour percentages. The Contractor is required to provide the Employer's database for the purposes of assessing skills transfer from informal skills training

- The Contractor is required to provide informal skills training so that the required standard of workmanship is maintained

- Any difficulty experienced by the tenderer/Contractor in the procurement of the required percentages of local labour is to be referred immediately to the Employer's representative

- In respect to "Target Labour", the minimum rate for any and all workers contracted for this project shall be R120 per day

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

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Item

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110

**C10: COMMUNITY LIASON OFFICER**

It is a requirement of this Contract that a Community Liaison officer (CLO) be appointed for the area represented by the Tender. The function of the CLO shall be to represent the local community in matters concerning the use of local labour on the works and to assist with and facilitate communication between the Contractor, the Engineer and the local communities. The period of appointment of the CLO shall be as stated in the Contract for Temporary Employment as a Community Liaison officer referred to below. It must be noted that the date of commencement of temporary employment of the CLO shall be no later than the date of commencement of the Contract. The identification of the approved CLO to be appointed by the Contractor under the Contract shall be resolved by the Contractor, the particular Ward Councillors in collaboration with the Local Communities.

It will be required, therefore, that the successful Tenderer (i.e. the Contractor) enter into a contract for the employment of the above-mentioned CLO, the parties to which will be the Contractor, the RDP/Development Forum and the CLO. To this end a specimen Form of Contract for the Temporary Employment as a Community Liaison Officer is included in this document; this Form of Contract sets out, inter alia, the agreement between the parties, the duties and conditions of employment of the CLO (including the rate of remuneration to be paid).

**As said contract will be between the Contractor and the CLO, all costs involved shall be borne by the Contractor and the tender shall be deemed to include for this.**

F: ..... T: ..... V:  
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**C11: GUARANTEES**

111

Where guarantees are called for, the Contractor shall obtain a written guarantee, addressed to the Employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent no later than the works completion date.

The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the final completion dated and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the Principal Agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the Contractor.

The Principal Agent shall be the sole judge of the cause responsible for defect of the works and his decision shall be final and binding in terms of clause 40.2 of the agreement

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

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**C12: WARRANTIES FOR MATERIAL AND WORKMANSHIP**

112

Where warranties for materials and/or workmanship are called for, the Contractor shall obtain a written warranty, addressed to the Employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on the certified practical completion of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the Contractor

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

**C13: OVERTIME**

113

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Principal Agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the Employer

F: ..... V: ..... T:  
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**C14: CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT**

114

It is specifically agreed that the Contractor accepts the obligation of assisting the agents in implementing proper cost management on this project. The Contractor will be advised by the Principal Agent of all cost management procedures which will be implemented to ensure that the final account does not exceed the budget

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

**C15: FINANCIAL INVESTIGATION**

115

Tenderers must be prepared to furnish the following documentation at own cost within seven (7) days of being called upon to do so:

- Audited financial statements for the past three financial years plus a certified financial statement covering the period from the end of the last financial year to date. If audited statements are not readily available provisional certified statements must be submitted

- A resolution of the board of directors authorising the signatory to certify such statements

- An extract of the relevant memorandum and article(s) of association from which it is clear that the company is empowered to issue such statement

- A list of all major shareholders indicating the percentage shareholding of each

F: ..... V: ..... T:  
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**C16:REINSTATEMENT OF DAMAGED AREAS ON THE SITE OR EMPLOYERS' PROPERTIES IN GENERAL CAUSED BY CONSTRUCTION OPERATIONS, ETC.**

116

Before commencing the works, the Contractor shall arrange with the Principal Agent to inspect, among others, existing buildings, structures, roads, pavings, kerbs, channels and fences on the site or Employers' properties in general

The Contractor shall note in writing, all conditions that the works could affect and copy the Principal Agent accordingly. The Contractor should pay particular attention to cracks, defects and existing levels related to structures, roads, pavings, kerbs, channels and fences, which later could be claimed to have been caused or disturbed by the construction operations

Where instructed by the Principal Agent, levels and photographs shall be taken by the Contractor and the cost thereof shall be for the Employer's account. Certified copies shall be lodged with the Principal Agent

The Contractor will be held responsible for maintaining the above in its present condition during execution of the works and will be liable for all costs relating to the repairing or replacing of damaged areas caused by the construction operations

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

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Item

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO.1</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p>-----</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be included in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".</p> <p>The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".</p> <p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock".</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.</p>			
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	<p>Section No. 2            GUARD HOUSE            Bill No. 1            EARTHWORKS</p>			

A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured

**Subterranean water:**

No subterranean water is expected

Should the Contractor however, encounter any subterranean water on the site, he shall immediately notify the Principal Agent thereof and submit recommendations for keeping the works free from subterranean water together with all costs involved therewith

**Excavation for working space in rock:**

Notwithstanding clause 10 measurement rule 27 of the Standard System of Measuring Building Work, excavation for working space in material of a more different character (e.g. soft or hard rock) will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be

**Carting away of excavated material**

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

**Filling**

Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard System (7th Edition, 2015) of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

**Testing:**

*Prices for backfilling to trenches and holes only are to include for all necessary density tests in accordance with SANS 1200D*

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**EXCAVATIONS, FILLING, ETC**

**EXCAVATIONS, ETC**

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

1	Trenches	m3	3
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**Extra over trench and hole excavations in earth for excavation in:**

2	Soft rock	m3	3
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3	Hard rock	m3	4
---	-----------	----	---

**Extra over all excavations for carting away:**

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	4
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**Risk of collapse of excavations:**

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24
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**Keeping excavations free of water:**

6	Keeping excavations free of all water other than subterranean water		Item
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**FILLING ETC**

**Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density:**

7	Backfilling to trenches, holes, etc	m3	3
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**G5 filling material supplied by the contractor, compacted to 95% Mod AASHTO density:**

8	Under floors, steps, pavings, etc	m3	3
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**Compaction of surfaces:**

9 Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 91% Mod AASHTO density

m2

22

**Prescribed density tests on filling:**

10 "Modified AASHTO Density" test

No

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<p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p>			
-----			
<p><b><u>PREAMBLES</u></b></p>			
<p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p>			
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<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Cost of tests:</u></b></p>			
<p><b><u>Breeze concrete:</u></b></p>			
<p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
<p><b><u>Lightweight concrete:</u></b></p>			
<p>Lightweight concrete shall have a density of 600kg/m<sup>3</sup> for the top 50mm and 400kg/m<sup>3</sup> for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p>			
<p><b>Carried to Collection</b></p>			
<p>Section No. 2                  GUARD HOUSE                  Bill No. 2                  CONCRETE, FORMWORK AND REINFORCEMENT</p>			R

**Waterproof concrete:**

"Waterproof concrete" shall have the same properties as normal concrete, but the following shall be modified to make the the concrete more water-tight:

1. a cement/water ratio of minimum 1.9 and maximum 2.1
2. minimum OPC content of 300kg/m<sup>3</sup>
3. Polypropolene micro fibres added to concrete at rate of 182 million per m<sup>3</sup>

**Formwork:**

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

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

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

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

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**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**20MPa concrete:**

1	Surface blinding under footings and bases	m3		4
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**REINFORCED CONCRETE CAST AGAINST  
 EXCAVATED SURFACES**

**20MPa concrete:**

Strip footings	m3	3
Surface beds on waterproofing	m3	5

**APRONS**

2	1000mm wide apron with expansion joints at every 1500mm interval	m2	22
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**TEST BLOCKS**

3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2
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**CONCRETE SUNDRIES**

**Finishing top surfaces of concrete smooth with a steel trowel:**

4	Surface beds, slabs, etc	m2	22
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**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

**Rough formwork to sides:**

5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	42
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**MOVEMENT JOINTS, ETC**

**Expansion joints with 10mm softboard between vertical concrete and brick surfaces:**

6	Not exceeding 300mm high to edges of surface beds	m	49
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**Saw-cut joints:**

7	6 x 10mm Saw-cut joints in top of concrete	m	73
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**REINFORCEMENT (PROVISIONAL)**

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<b><u>Mild steel reinforcement to structural concrete work:</u></b>		
8	Mild steel bar reinforcement (8 to 40mm diameter bars)	t 0.98
<b><u>High tensile steel reinforcement to structural concrete work:</u></b>		
9	High tensile steel bar reinforcement (8 to 40mm diameter bars)	t 0.91
<b><u>Fabric reinforcement:</u></b>		
10	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2 32

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**Bagged and sealed walls:**

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating

**Face bricks :**

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

All face brickwork shall be regularly cleaned down as the work proceeds and shall be protected as necessary by an approved method

**Pointing:**

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

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**FOUNDATIONS (PROVISIONAL)**

**Brickwork of NFP bricks (14 MPa nominal compressive strength) in class 1 mortar:**

1	One brick walls	m2	11
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**2,5mm Brickwork reinforcement:**

2	150mm Wide reinforcement built in horizontally	m	12
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**FACE BRICKWORK**

**Face bricks (Allow a Prime Cost Amount of R5 500.00/1000 bricks delivered to site excluding VAT) pointed with flush horizontal and vertical joints**

3	Extra over brickwork for face brickwork	m2	11
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**SUPERSTRUCTURE**

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	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc:</u></b>				
4	One brick walls	m2	57		
	<b><u>BRICKWORK SUNDRIES</u></b>				
	<b><u>Joint forming material in movement joints:</u></b>				
5	12mm Fibre board built in vertically through brick walls	m	36		
	<b><u>2,5mm Brickwork reinforcement:</u></b>				
6	75mm Wide reinforcement built in horizontally	m	36		
7	150mm Wide reinforcement built in horizontally	m	72		
	<b><u>Prestressed fabricated concrete lintels, including necessary temporary supports:</u></b>				
8	110 x 75mm Lintels in lengths not exceeding 3m long	m	9		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Face bricks (Allow a Prime Cost Amount of R5 500.00/1000 bricks delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>				
9	Half brick wall faced on both sides	m2	114		
10	Extra over brickwork for face brickwork	m2	40		
11	Extra over brickwork for brick-on-edge header course lintel pointed on face and 120mm soffit	m	7		
12	Fair raking cutting	m	10		
	<b><u>Brick-on-edge header course coping, sills, etc. of face bricks (Allow a Prime Cost Amount of R5 500.00/1000 bricks delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u></b>				
13	150mm Wide sills set sloping and slightly projecting	m	6		
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<p><b><u>BILL NO.4</u></b></p>			
<p><b><u>WATERPROOFING</u></b></p>			
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<p><b><u>PREAMBLES</u></b></p>			
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<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Waterproofing:</u></b></p>			
<p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
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<p>Section No. 2          GUARD HOUSE          Bill No. 4          WATERPROOFING</p>			

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B):**

1	In walls	m2	10
2	In walls vertically at reveals	m2	9

**One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:**

3	Under surface beds	m2	28
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**JOINT SEALANTS ETC**

**Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc**

4	m6 x 10mm In saw cut joints in floors	m	56
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**White silicone sealing compound including backing cord, bond breaker, primer, etc**

5	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary [ LI ]	m	49
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WATERPROOFING

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	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO.5</u></b></p> <p><b><u>ROOF COVERINGS</u></b></p> <p>-----</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Profiled metal roof sheeting and accessories shall be supplied with a 10 year guarantee and be installed by an approved installer</p> <p>All fixing holes shall be drilled and not punched</p> <p>Roof covering accessories shall be manufactured from the same material as used for roof covering</p> <p>-----</p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p>			
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	<p>Section No. 2            GUARD HOUSE            Bill No. 5            ROOF COVERINGS</p>			

**0,6 mm "Klip-Lok 406" or similar approved light industrial Z275 spelter galvanised steel sheeting, with "Classicoat" finish one side and half coat "Classicoat Grey" other side, and accessories fixed to timber purlins or rails at approximately 1500mm centres:**

1	Roof coverings with pitch not exceeding 25 degrees	m2	24
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**Accessories:**

2	Apex flashings 462mm girth	m	7
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**ROOF AND WALL INSULATION**

**"Sisalation 405" or similar approved residential grade aluminium foil based insulation:**

3	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	24
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ROOF COVERINGS

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<p><b><u>BILL NO.6</u></b></p>			
<p><b><u>CARPENTRY AND JOINERY</u></b></p>			
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<p><b><u>PREAMBLES</u></b></p>			
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<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Fixing:</u></b></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given separately elsewhere</p>			
<p><b><u>Joinery:</u></b></p>			
<p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
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**Particle board**

All particle board shall comply with SANS 50312 having the required marking as per SANS 50312/EN 312

**Decorative thermosetting plastic laminate covering:**

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

**Sizes:**

Sizes are nominal and the Contractor shall make allowance in his prices for minor variances in stated finished sizes of timber doors, door members, door frames, architraves, etc

**Prices**

Prices for all joinery work are to include for general framing, housing and notching, arris rounded angles, glueing, blocking, planting on, screwing, adhesives, dowels, pellets, cross tongues, screws and nails and setting up complete and also for all square cutting and waste. Tops shall be secured with metal or hardwood buttons.

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**ROOFS, ETC**

**Sawn softwood grade 5:**

1	38 x 114mm Wall plates bolted	m	8
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	12
3	50 x 76mm Purlins	m	19

**EAVES, VERGES, ETC**

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CARPENTRY AND JOINERY

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<p><b><u>BILL NO.7</u></b></p>			
<p><b><u>IRONMONGERY</u></b></p>			
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<p><b><u>PREAMBLES</u></b></p>			
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<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Proprietary items:</u></b></p>			
<p>Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p>			
<p>Note that the manufacturers names specified in this trade are for the purposes of competitive pricing.</p>			
<p>Prices are to be based on the specific products/articles specified.</p>			
<p>On request, returnable samples are to be provided to the Project Manager for consideration</p>			
<p><b><u>Locks:</u></b></p>			
<p>Notwithstanding Clause 2, Item 3 of the "Ironmongery" trade of the Standard System (7th Edition, 2015) of Measuring Building Wor, descriptions of locks shall be deemed to include two keys per lock</p>			
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**Finishes to ironmongery:**

Where applicable, finishes to ironmongery are indicated by suffixes in accordance with the following list:

- BS Satin bronze lacquered
- CH Chromium plated
- SC Satin chromium plated
- SE Silver enamelled
- GE Grey enamelled
- AN Anodised natural
- AS Anodised silver
- AB Anodised bronze
- AG Anodised gold
- ABL Anodised black
- PB Polished brass
- PL Polished and lacquered
- PT Epoxy coated
- SD Sanded
- BBS Brushed stainless steel

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**CATCHES, CABIN HOOKS, ETC**

1	100mm BRACE CABIN HOOK	No	1
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**LOCKS**

**LEVER MORTICE LOCK SET**

2	3 LEVER MORTICE LOCK SET	No	2
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**HANDLES**

**"Union Assa Abloy" or similar approved:**

3	handles on doors with 300mm fixing centres	Pairs	2.0
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IRONMONGERY

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<p><b><u>METALWORK</u></b></p>			
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<p><b><u>PREAMBLES</u></b></p>			
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<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Descriptions of bolts, anchors, etc:</u></b></p>			
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>			
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>			
<p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts, unless otherwise described</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p>			
<p><b>Carried to Collection</b></p>			
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**Fixing:**

Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete

Where items are described as "bolted", the bolts are measured elsewhere as stated in clause N.7 of the Model Preambles

**References:**

References in descriptions of windows, doors, gates, etc refer to the respective types of windows, doors, etc detailed in the Architect's window schedules numbered

- 21111/FSPS/S005

and bound into the back of these bills of quantities

Tenderers are to price the following items in conjunction with the above Architect's drawings, etc and no claim arising from brevity of descriptions in these bills of quantities, of items shown on the Architect's drawings, etc shall be entertained

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METALWORK

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**PRESSED STEEL DOOR FRAMES**

**Welded screens and gates, to brickwalls:**

1	Single gate and frame size to fit standard door, size 813 x 2032mm high	No	1
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**STEEL GATES, SCREENS, ETC**

**1,6mm single rebated frames suitable for half brick walls:**

2	Frame for door size 813 x 2032mm high	No	1
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**1,6mm single rebated frames suitable for one brick walls:**

3	Frame for door size 813 x 2032mm high	No	1
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**STEEL WINDOWS, DOORS, ETC**

**Standard windows:**

4	533 x 1264mm HIGH STANDARD STEEL, WINDOW FRAME (W1)	No	1
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5	2489 x 1264mm HIGH STANDARD STEEL WINDOW FRAME (W2)	No	1
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6	1511 x 654mm HIGH STANDARD STEEL WINDOW FRAME (W3)	No	1
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 Bill No. 8  
 METALWORK

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Bill No. 8

METALWORK

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<p><b><u>BILL NO.9</u></b></p>			
<p><b><u>PLASTERING</u></b></p> <p>-----</p>			
<p><b><u>PREAMBLES</u></b></p>			
<p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p>			
<p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Moisture tests:</u></b></p>			
<p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish, moisture tests are to be carried out to the complete satisfaction of the Project Manager to ensure that these surfaces have the correct moisture content for the finish to be applied</p>			
<p><b><u>Labours, etc</u></b></p>			
<p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions</p>			
<p><b>Carried to Collection</b></p>			
<p>Section No. 2                  GUARD HOUSE                  Bill No. 9                  PLASTERING</p>			
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**Sample Panels**

A sample panel size 1m x1m, of each of the various plaster type wall and floor finishes in this contract, shall be prepared for the approval of the Project Manager and the cost of the sample panel(s) shall be deemed to be included in the overall costs of the relevant wall and floor finishes

**GRANOLITHIC**

**Method:**

The method to be used shall be either the monolithic method or the bonded method

**Preparation:**

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

**Mix:**

Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

**Panels:**

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

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Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

**Laying:**

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

**Curing, seasoning and protection:**

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

**Colour:**

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour

**TINTED WHITE CEMENT SCREEDS**

Tinted screed shall be composed of one bag White Portland Cement and two wheelbarrows "Malmesbury" sand. Surfaces shall be finished with a steel trowel to leave a smooth finish and coated with two coats "Earthcote S.I. Floorcote" two-pack polyurethane floor sealer applied as per the manufacturer's recommendations

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NOTE: Tinted screeds are to be strengthened with "Primal Eccos" acrylic polymer (15% of the water volume is to be substituted with the acrylic polymer during the mixing process)

Coarse sand is to be used for these screeds

All tinting, finishing, strengthening, etc are to be mixed, applied, etc strictly in accordance with the manufacturer's instructions

**CEMENT PLASTER**

Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster i.e. 1:4 cement:sand plaster (common cement)

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**CEMENT SCREEDS TO CONCRETE**

**Cement screeds steel trowelled, on concrete:**

1	30mm Thick to floors	m2	22
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**FLOOR AND WALL SEALERS**

**Minimum two coats approved epoxy coat, on concrete:**

2	On screed	m2	22
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	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO.10</u></b></p> <p><b><u>GLAZING</u></b></p> <p>-----</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Float glass:</u></b></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><b><u>Laminated glass:</u></b></p> <p>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</p> <p>-----</p> <p><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><b><u>6,38mm Obscure safety glass:</u></b></p>			
1	533 X 1264 High Standard Steel	m2	2	
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2 2489 X 1264 High Standard Steel

m2

4

3 1511 X 1264 High Standard Steel

m2

3

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	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO.11</u></b></p> <p><b><u>TILING</u></b></p> <p>-----</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>TILING</u></b></p> <p><u>Vinyl tiles on 30mm screed on 85mm surface bed on 250 micron DPM on 50mm sand bed on well compacted soil to ENG's detail</u></p>			
1	On Floors	m2	22	
	<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2                      GUARD HOUSE                      Bill No. 11                      TILING</p>			R

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO.12</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p>-----</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><b><u>Previously painted plastered surfaces:</u></b></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and minor cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><b><u>Previously painted metal surfaces:</u></b></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>			
	<b>Carried to Collection</b>			R
	<p>Section No. 2            GUARD HOUSE            Bill No. 12            PAINTWORK</p>			

**Previously painted wood surfaces:**

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

**PAINT SPECIFICATIONS**

All painting shall be done in accordance with "Plascon", etc specifications, unless otherwise described

**COLOURS**

When staining timber, the resultant colour or shade must be to the complete satisfaction of the Project Manager before any overcoating or preservative is applied

Paintwork is classified in the following different colour groups: "White", "Pastel", "Deep" and "Transparent" in accordance with the "Natural Colour System" (NCS) adopted by the SA National Standards  
 Unless otherwise described, all paintwork shall be deemed to be classified in the "White" colour group

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**PAINTWORK, ETC TO NEW WORK**

**ON FIBRE-CEMENT BOARD SURFACES**

**One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:**

1	Fascias and barge boards, including priming metal jointing strips	m2	5
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**METAL SURFACES WITH**

**PRIME AND PAINT UNDERCOAT AND 2no. FINISHING COATS IN GLOSS ENAMEL COLOUR TBC**

2	Door frames	m2	11
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 PAINTWORK

**SPOT PRINING DEFECTS IN PRE-PRIME SURFACE  
 WITH ZINC CHROMATE PRIMER & APPLY ONE  
 UNIVERSAL UNDER COAT & TWO COATS EPWP  
 GOLDEN BROWN GLOSS ENAMEL PAINT ON  
 STEEL**

3	Windows	m2	7
4	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7
5	Extra over for paintwork in the "Deep" colour group	m2	26

**ON WOOD SURFACES**

**One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on:**

6	Doors	m2	21
7	Roof timbers at eaves and verges	m2	30
8	Extra over for paintwork in the "Deep" colour group	m2	51

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3	MASONRY	59	
4	WATERPROOFING	62	
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8	METALWORK	76	
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	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>EXCAVATION</u></b>			
	-----			
	<b><u>SITE CLEARANCE ETC</u></b>			
	-----			
	<u>Clearing Fencing Line</u>			
1	Digging up and removing debris, vegetation, hedges, shrubs and tress not exceeding 200mm girth, bust etc	m2	1 242	
	<b><u>EXCAVATIONS, ETC</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
2	Ground beams	m3	4	
3	Holes	m3	16	
	<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>			
4	Soft rock	m3	2	
5	Hard rock	m3	1	
	<b><u>Extra over all excavations for carting away:</u></b>			
	<b><u>SECTION NO. 3</u></b>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	98	
	<b><u>Risk of collapse of excavations:</u></b>			
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	23	
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16	1800mm high steel palisade fence panels formed of 30 x 30 x 2mm mild steel angle iron palings space at 133mm centers with devil fork at the top and dove tail at the bottoms, vertically welded on two 40 x 40 x 2mm horizontal rails, including steel stiffeners, welding, cutting , all necessary fixing lugs, bolts, etc	m	615
17	2400mm High steel square posts 76 x 76 x 2mm, with closing pyramid on tops, cast into 600mm deep concrete base	No	205

**ACCESS GATE**

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18	Pedestrian Gate size 1500 x 1800 mm high including rectangular tubes, flat bars, steel angles, etc, suppliers and delivered to site	No	1
19	Vehicular sliding gate size 5000 x 1800mm high including rectangular tubes, flat bars, steel angles, etc, supplied and delivered to site	No	1

**PAINT WORK**

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**PAINT WORK ETC, TO NEW WORK**

**Clean surface and allow to dry completely remove all flux, rust, grease and loose material before painting. All joints must be smoothed. Apply one coat primer for steel( red oxide) and apply one coat universal undercoat and one coat gloss enamel( Traffic green as specified by the LPDE)**

20	On palisade fencing( Measured over the full flat area of both sides)	m2	1 220
21	On gates (Measured over the full flat area of both sides)	m2	24

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2	GUARD HOUSE	90	
3	EXTERNAL WORK	94	
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	<u>CONTRACT CONTINGENCIES</u>		
	Allow the sum of 10% (ten percent) of the above sub total for Contingencies to be spent as the Principal Agent may direct and to be deducted in whole or in part if not required		R
	SUB TOTAL		R
	<u>VALUE ADDED TAX</u>		
	Value Added Tax [15%]		R
	<b>Carried to Form of Tender</b>		R