

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

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

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

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

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

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

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

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

"**FRAUDULENT PRACTICE**" means a misrepresentation of facts in order to influence a procurement process in the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderes (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 determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

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OBJECTIVE AND PREPARATION

1 **A2 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

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1 **A3 DOCUMENTS**

Clause 3.0

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

Clause 3.7 is amended by the addition of the following:

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

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

Fixed: _____ Value related: _____ Time related: _____

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2 **A4 DESIGN RESPONSIBILITY**

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

Fixed: _____ Value related: _____ Time related: _____

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3 **A5 EMPLOYERS AGENTS**

Clause 5.0

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

Fixed: _____ Value related: _____ Time related: _____

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4 **A6 SITE REPRESENTATIVE**

Clause 6.0

Fixed: _____ Value related: _____ Time related: _____

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1 A7 COMPLIANCE WITH REGULATIONS

Clause 7.0

Note: A separate clause has been included in Section C : Specific Preliminaries of the **bills of quantities / lump sum document** for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification

Fixed:_____ Value related:_____ Time related:_____

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2 A8 WORKS RISK

Clause 8.0

Fixed:_____ Value related:_____ Time related:_____

Item

3 A9 INDEMNITIES

Clause 9.0

Fixed:_____ Value related:_____ Time related:_____

Item

4 A10 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 **contractors** 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 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**

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(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

(f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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10.7.2 Injury to persons or loss of or damage to property

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

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

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractors** 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 **contractors** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value related: _____ Time related: _____

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1 **A11 LIABILITY INSURANCES**

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

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1 **A12 EFFECTING INSURANCES**

Clause 12.0

Fixed:_____ Value related:_____ Time related:_____

Item

2 **A13.0 No clause**

N/A

3 **A14 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 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 **employers** 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:

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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 **employers** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

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

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

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

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

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

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

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

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

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

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

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

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

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value 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 **employers** 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 **contractors** 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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 **A15 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

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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

Fixed: _____ Value related: _____ Time related: _____

1 **A16 ACCESS TO THE WORKS**

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A17 CONTRACT INSTRUCTIONS**

Clause 17.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

3 **A18 SETTING OUT OF THE WORKS**

Clause 18.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 **A19 ASSIGNMENT**

Clause 19.0

Fixed: _____ Value related: _____ Time related: _____

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1 A20 NOMINATED SUB-CONTRACTORS

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No Clause

Note: See item B9.1 hereinafter for adjustment of attendance on **nominated subcontractors** executing work allowed for under provisional sums

Fixed: _____ Value related: _____ Time related: _____

Item

2 A21 SELECTED SUBCONTRACTORS

Clause 21.0

Clause 21 is amended by replacing it with:

No Clause

Fixed: _____ Value related: _____ Time related: _____

Item

3 A22 EMPLOYERS DIRECT CONTRACTORS

Clause 22.0

Fixed: _____ Value related: _____ Time related: _____

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4 A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS

Clause 23.0

Fixed: _____ Value related: _____ Time related: _____

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COMPLETION

1 **A24 PRACTICAL COMPLETION**

Clause 24.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A25 WORK'S COMPLETION**

Clause 25.0

Fixed: _____ Value related: _____ Time related: _____

Item

3 **A26 FINAL COMPLETION**

Clause 26.0

Clause 26.1.2 is amended by inserting "#" next to 26.1.2

Fixed: _____ Value related: _____ Time related: _____

Item

4 **A27 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

Fixed: _____ Value related: _____ Time related: _____

Item

5 **A28 SECTIONAL COMPLETION**

Clause 28.0

Fixed: _____ Value related: _____ Time related: _____

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1 **A29 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A30 PENALTY FOR NON-COMPLETION**

Clause 30.0

Fixed: _____ Value related: _____ Time related: _____

Item

PAYMENT

3 **A31 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

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

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

Alternative A

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

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

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

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

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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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1 **A32 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**"

Fixed:_____ Value related:_____ Time related:_____

Item

2 **A33 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Fixed:_____ Value related:_____ Time related:_____

3 **A34 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

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

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

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

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

Fixed:_____ Value related:_____ Time related:_____

Item

4 **A35 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed:_____ Value related:_____ Time related:_____

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CANCELLATION

A36 CANCELLATION BY EMPLOYER - CONTRACTORS 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

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 **fraudulant 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

Fixed: _____ Value related: _____ Time related: _____

Item

1 **A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 **A38 CANCELLATION BY CONTRACTOR - EMPLOYERS DEFAULT**

Clause 38.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **A39 CESSATON - CANCELLATION OF THE WORKS**

Clause 39.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

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1 **A40 DISPUTE SETTLEMENT**

Clause 40.0

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

Clause 40.6 is amended by removing the reference to:

No clause

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS

2 **A41 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

THE SCHEDULE (DPW04EC)

3 **A42 PRE-TENDER INFORMATION**

Clause 42.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

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SECTION B: JBCC PRELIMINARIES

1: DEFINITIONS AND INTERPRETATION

1 **Definitions and interpretation**

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

Fixed: _____ Value related: _____ Time related: _____

Item

2: DOCUMENTS

2 **Checking of documents**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Provisional bills of quantities**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Availability of construction documentation**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **Interests of agents**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Priced documents**

Fixed: _____ Value related: _____ Time related: _____

Item

7 **Tender submission**

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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

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3: THE SITE

1 **Defined works area**

Fixed: _____ Value related: _____ Time related: _____

Item

2 **Geotechnical investigation**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Inspection of the site**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Existing premises occupied**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **Previous work dimensional accuracy**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Previous work defects**

Fixed: _____ Value related: _____ Time related: _____

Item

7 **Services known**

Fixed: _____ Value related: _____ Time related: _____

Item

8 **Services unknown**

Fixed: _____ Value related: _____ Time related: _____

Item

9 **Protection of trees**

Fixed: _____ Value related: _____ Time related: _____

Item

10 **Articles of value**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

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1 **Inspection of adjoining properties**

Fixed: _____ Value related: _____ Time related: _____

Item

4: MANAGEMENT OF CONTRACT

2 **Management of the works**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Programme for the works**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Progress meetings**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **Technical meetings**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Labour and plant records**

Fixed: _____ Value related: _____ Time related: _____

Item

5: SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS

7 **Samples of materials**

Fixed: _____ Value related: _____ Time related: _____

Item

8 **Workmanship samples**

Fixed: _____ Value related: _____ Time related: _____

Item

9 **Shop drawings**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section 1
Preliminaries
Bill No. 1
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Completion of Skills Development Centre, Bredasdorp

1 **Compliance with manufacturer's instructions**

Fixed: _____ Value related: _____ Time related: _____

Item

6: TEMPORARY WORKS AND PLANT

2 **Deposits and fees**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Enclosure of the works**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Advertising**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **Plant, equipment, sheds and offices**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Main notice board**

Fixed: _____ Value related: _____ Time related: _____

Item

7 **Subcontractors notice board**

Fixed: _____ Value related: _____ Time related: _____

Item

7: TEMPORARY SERVICES

8 **Location**

Fixed: _____ Value related: _____ Time related: _____

Item

9 **Water**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section 1
Preliminaries
Bill No. 1
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Completion of Skills Development Centre, Bredasdorp

1 **Electricity**

Fixed: _____ Value related: _____ Time related: _____

Item

2 **Telecommunication facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Ablution facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

8: PRIME COST AMOUNTS

4 **Responsibility for prime cost amounts**

Fixed: _____ Value related: _____ Time related: _____

Item

9: ATTENDANCE ON N/S SUBCONTRACTORS

5 **General attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Special attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

7 **Commissioning fuel, water and electricity**

Fixed: _____ Value related: _____ Time related: _____

Item

10: FINANCIAL ASPECTS

8 **Statutory taxes, duties and levies**

Fixed: _____ Value related: _____ Time related: _____

Item

9 **Payment for preliminaries**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section 1
Preliminaries
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1 **Adjustment of preliminaries**

Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) **working days** of taking possession of the **site**" with "when submitting his priced **bills of quantities / lump sum document**"

Fixed: _____ Value related: _____ Time related: _____

Item

2 **Payment certificate cash flow**

Fixed: _____ Value related: _____ Time related: _____

Item

11: GENERAL

3 **Protection of the works**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Protection / isolation of existing / sectionally occupied works**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **Security of the works**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Notice before covering work**

Fixed: _____ Value related: _____ Time related: _____

Item

7 **Disturbance**

Fixed: _____ Value related: _____ Time related: _____

Item

8 **Environmental disturbance**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section 1
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Completion of Skills Development Centre, Bredasdorp

1 **Works cleaning and clearing**

Fixed: _____ Value related: _____ Time related: _____

Item

2 **Vermin**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **Overhand work**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **Instruction manuals and guarantees**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **As built information**

Fixed: _____ Value related: _____ Time related: _____

Item

6 **Tenant installations**

Fixed: _____ Value related: _____ Time related: _____

Item

12: SCHEDULE OF VARIABLES

7 **Schedule of Variables**

Fixed: _____ Value related: _____ Time related: _____

Item

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.

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

12.1 PRE TENDER INFORMATION

12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional No

12.1.2 Availability of construction documentation

[2.3] *Construction documentation is complete* Yes

12.1.3 Interest of agents

[2.4] The agents have no interest in this project apart from their professional interest

12.1.4 Defined works area

[3.1] The works will be executed on Erf 6161, Remainder of Erf 4096, Bredasdorp

12.1.5 Geotechnical investigation

[3.2] There is no geotechnical report available

12.1.6 Existing premises occupied

[3.4]

12.1.7 Previous work - dimensional accuracy

[3.5] The contractor is responsible for ensuring dimensional accuracy of all previous work that might impact the current contract and must satisfy himself as to opening sizes, etc before ordering components

12.1.8 Previous work - defects

[3.6] Details:

12.1.9 Services - known

[3.7] The contractor must ensure that existing services continue uninterrupted during the course of the contract. Any damage whatsoever caused by the contractor and/or his agents to any existing services shall be rectified and/or made good at his own expense to the satisfaction of the Agent

12.1.10 Protection of trees

[3.9]

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Completion of Skills Development Centre, Bredasdorp

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12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] The contractor shall allow for the erection, alteration, maintenance and dismantling of approximately 300m of suitable hoardings to shield sections of the works from exposure.

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 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

12.1.14 **Main notice board**

[6.5] 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] A notice board is required NO

12.1.16 **Water**

[7.2] Option A (by contractor) YES

Option B (by employer - free of charge) NO

Option C (by employer - metered) NO

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Completion of Skills Development Centre, Bredasdorp

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12.1.17 **Electricity**

[7.3] Option A (by contractor) YES

Option B (by employer - free of charge) NO

Option C (by employer - metered) NO

12.1.18 **Telecommunications**

[7.4] Telephone YES

Facsimile YES

E-mail NO

12.1.19 **Ablution facilities**

[7.5] Option A (by contractor) YES

Option B (by employer) NO

12.1.20 **Protection of existing/sectionally occupied works**

[11.2] Protection is required YES

12.1.21 **Special attendance**

[9.2] **Subcontractor (1)** N/A

Subcontractor (2) N/A

Subcontractor (3) N/A

Subcontractor (4) N/A

12.1.22 **Protection of works**

[11.1] The contractor shall take all necessary steps to protect existing buildings and infrastructure within the site boundaries. Any damage caused by the contractor and/or his agents shall be rectified and/or made good at his own expense to the satisfaction of the Agent

12.1.23 **Disturbance**

[11.5] The contractor shall execute the works with as little noise and disturbance as possible to adjoining premises and occupants thereof. He 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

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12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)

YES/NO

Option B (calculates)

YES/NO

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

YES/NO

Option B (detailed breakdown)

YES/NO

12.2.3 **Additional agreed preliminaries items**

Details:

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Completion of Skills Development Centre, Bredasdorp

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

1 **C1 CONTRACT DRAWINGS**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **C2 GENERAL PREAMBLES**

The document Specification of Materials and Methods to be used (PW371) is obtainable on the Departments website <<http://www.publicworks.gov.za/>> under Consultants Guidelines), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____ Time related: _____

Item

3 **C3 TRADE NAMES**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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1 **C4 IMPORTED MATERIALS AND EQUIPMENT**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **C5 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: _____ Value related: _____ Time related: _____

Item

C6 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. 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 31.0 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

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Completion of Skills Development Centre, Bredasdorp

1 **C6.1 AWARENESS CHAMPION**

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **C6.2 AWARENESS WORKSHOPS**

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

Fixed: _____ Value related: _____ Time related: _____

Item

3 **C6.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

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

Fixed: _____ Value related: _____ Time related: _____

Item

4 **C6.4 ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

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1 **C6.5 MONITORING**

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 **C7 : OCCUPATIONAL HEALTH AND SAFETY ACT**

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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Preliminaries

Bill No. 1

Preliminaries

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION 2</u> | | | |
| | <u>BILL No. 1</u> | | | |
| | <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>CONCRETE</u> | | | |
| | <u>Concrete test cubes</u> | | | |
| 1 | Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Principal agent. Only successful tests will be paid for <u>(Provisional)</u> | No | 12 | |
| | <u>Mass concrete</u> | | | |
| | <u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u> | | | |
| 2 | In ramps | m3 | 2 | |
| | <u>Reinforced concrete</u> | | | |
| | <u>Mesh reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u> | | | |
| 3 | In surface beds cast over waterproofing membrane (elsewhere) | m3 | 21 | |
| | <u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u> | | | |
| 4 | In slabs | m3 | 1 | |
| | <u>Sundries</u> | | | |
| 5 | Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet | m2 | 163 | |
| | <u>FORMWORK</u> | | | |
| | Carried to Collection | | | |
| | Section 2 Building Work Bill No. 1 Concrete, Formwork and Reinforcement Completion of Skills Development Centre, Bredasdorp | | | R |

Formwork to

| | | | |
|---|--|----|----|
| 1 | Soffit of slabs | m2 | 7 |
| 2 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 11 |

REINFORCEMENT

High tensile steel bar reinforcement to structural concrete work

| | | | |
|---|-------------------|---|------|
| 3 | All Diameter bars | t | 0.10 |
|---|-------------------|---|------|

Mesh reinforcement

| | | | |
|---|---|----|-----|
| 4 | Mesh reinforcement with mesh reference number 193 laid in surface beds with 300mm wide side and end laps (measured net) | m2 | 163 |
|---|---|----|-----|

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Section 2
Building Work
Bill No. 1
Concrete, Formwork and Reinforcement
Completion of Skills Development Centre, Bredasdorp

Section 2

Building Work

Bill No. 1

Concrete, Formwork and Reinforcement

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Section 2

Building Work

Bill No. 1

Concrete, Formwork and Reinforcement

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION 2</u> | | | |
| | <u>BILL No. 2</u> | | | |
| | <u>MASONRY</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>Brickwork in burnt clay bricks in (5:1) cement mortar</u> | | | |
| 1 | Piers | m3 | 1 | |
| 2 | Half brick wall | m2 | 18 | |
| 3 | Half brick wall in beamfilling | m2 | 46 | |
| 4 | One brick wall | m2 | 120 | |
| | <u>Brick reinforcement</u> | | | |
| 5 | Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net) | m | 46 | |
| 6 | Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net) | m | 817 | |
| | <u>Sundries</u> | | | |
| 7 | 38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses | No | 81 | |
| | <u>Nutec Cement/Fibre-cement window cills</u> | | | |
| 8 | Internal window sill 100mm wide | m | 40 | |
| 9 | External window sill 100mm wide set sloping | m | 40 | |
| | <u>Prestressed concrete lintels</u> | | | |
| 10 | 110 x 75mm Lintels in lengths not exceeding 3m | m | 22 | |
| | Carried to Collection | | | |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 2 | | | |
| | Masonry | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |
| | | | R | |

Galvanised hoop iron cramps, ties, etc

| | | | |
|---|---|----|----|
| 1 | 50 x 1.5mm Wall tie 605mm long, five times bent along length, with one end shot-pinned to concrete and the other end built into brickwork | No | 27 |
|---|---|----|----|

PAVING

Paving of clay-brick pavers at a prime cost of R3600.00/m² (excluding VAT) laid with butt joints to stretcher bond pattern on and including 25mm thick river-sand bed with sand & cement mixture swept into joints and hosed down, including weedkiller and preparation of ground

| | | | |
|---|--|----------------|-----|
| 2 | Paving to entrance walkway areas, aprons, etc to falls | m ² | 264 |
| 3 | 220mm Wide brick-on-flat header course edging on 75mm thick mortar bed | m | 176 |
| 4 | Fair raking cutting | m | 34 |

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Masonry

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Building Work

Bill No. 2

Masonry

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION 2</u> | | | |
| | <u>BILL No. 3</u> | | | |
| | <u>WATERPROOFING</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>DAMP-PROOFING TO WALLS</u> | | | |
| 1 | 375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net) | m2 | 7 | |
| | <u>DAMP-PROOFING UNDER FLOORS, ETC.</u> | | | |
| | <u>Colour coded polyethylene sheeting complying with SANS 952, Type C in widest practicable widths with all joints lapped and sealed in accordance with the manufacturer's instructions</u> | | | |
| 2 | 250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing | m2 | | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 3 | | | |
| | Waterproofing | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | SECTION 2 | | | |
| | BILL No. 4 | | | |
| | ROOF COVERINGS, ETC. | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | PROFILED METAL SHEETING AND ACCESSORIES | | | |
| | 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions | | | |
| | Note | | | |
| | The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified | | | |
| | <u>Profiled steel roofing sheets in single lengths and accessories</u> | | | |
| 1 | 0,58mm Roof sheeting with pitch not exceeding 25° fixed to timber purlins (elsewhere) | m2 | 368 | |
| 2 | 0,58mm Standard sheet iron ridge covering 450mm girth and fixed to timber purlins (elsewhere) | m | 4 | |
| 3 | 0.58mm Sheet iron hip capping 300mm girth | m | 18 | |
| 4 | 0.58mm Sheet iron side wall flashing 370mm girth | m | 32 | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section 2 Building Work Bill No. 4 Roof Coverings, etc Completion of Skills Development Centre, Bredasdorp | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>SECTION 2</u></p> <p><u>BILL No. 5</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>NOTE</p> <p>Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill</p> <p><u>TIMBER</u></p> <p>All softwood to be South African Pine</p> <p><u>DESCRIPTIONS</u></p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section 2 Building Work Bill No. 5 Carpentry and Joinery Completion of Skills Development Centre, Bredasdorp</p> | | R | |

Prefabricated metal connector plate timber roof trusses

Roofs, etc

Allow for the preparation and submission of the following documents (applicable to ALL roofs):

- | | | |
|---|--|------|
| 1 | Detailed shop drawings indicating truss sizes, truss positions, bracings, etc to be submitted for approval prior to commencement of fabrication. | Item |
| 2 | Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loading adopted, sizes and grading of timber components, details, etc. | Item |
| 3 | Erection guarantee certificate after the entire completed roof truss structure has been inspected, all defective work taken out and made good, etc to the satisfaction of the engineer. | Item |

NOTE:

- a. All the roof trusses to be at average 1177mm centres and constructed for a 15 degrees pitch unless otherwise stated
- b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.
- c. Unless otherwise described all rafter feet are to extend 770mm beyond the length of the tie beam, with ends twice splay cut
- d. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SANS 0243 and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Principal Agent
- e. The tenderer's attention is drawn to the fact that the Architect's roof truss drawings only represent the overall size and bearing points of the trusses and not the required design.

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f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing.

| | | | |
|--------------------------------|--|----|-----|
| 1 | Double pitched full truss size 8m long x 1,479m high in the centre with tie beam 6.5m long | No | 4 |
| 2 | Mono pitch roof truss size 3.23m long x 1.4m high | No | 14 |
| 3 | Mono pitch roof truss size 4.4m long x 1.4m high | No | 8 |
| 4 | Mono pitch roof truss size 4.9m long x 1.4m high | No | 8 |
| 5 | Mono pitch roof truss size ranging from 1m to 4.9m long x 1.4m high maximum to form hip | No | 26 |
| <u>Sundry roof timbers</u> | | | |
| <u>Sawn Softwood (Grade 5)</u> | | | |
| 6 | 38 x 114mm Wall plate | m | 115 |
| 7 | 50 x 76mm Purlin including additional timber supports at spliced joints | m | 581 |
| <u>Roof sundries</u> | | | |
| 8 | Galvanised mild steel hurricane type fixing clips nailed between rafter and purlin connection (<u>Provisional</u>) | No | 192 |
| <u>Wood preservative</u> | | | |
| 9 | Two coats wood preservative applied hot on wrought exposed roof timbers | m2 | 9 |
| <u>Fascias and bargeboards</u> | | | |
| <u>Tempered fibre-cement</u> | | | |
| 10 | 15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium halfround cover strips at all joints | m | 72 |

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| | | | |
|---|--|----|----|
| 1 | 15 x 225mm Barge board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and nailed with steel nails into mortar joints at maximum 750mm centres and jointed with and including standard aluminium halfround cover strips at all joints | m | 59 |
| Doors | | | |
| NOTE | | | |
| All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tenon where the tenon is exposed on the outside edges of styles and where the tenon is wedged to form a dovetailed shape | | | |
| <u>Wrought Meranti</u> | | | |
| 2 | 40mm x 0,813 x 2,032m Framed, ledged and braced batten door formed of 40 x 110mm styles and top rail, 20 x 225mm bottom ledge, 20 x 150mm middle ledge and 20 x 110mm diagonal braces, filled in flush one side with 20 x 75mm tongued, grooved and V-jointed both sides vertical boarding fixed in and including grooves in styles and top rail | No | 9 |
| 3 | 40mm x 0,92 x 2,032m Framed, ledged and braced batten door formed of 40 x 110mm styles and top rail, 20 x 225mm bottom ledge, 20 x 150mm middle ledge and 20 x 110mm diagonal braces, filled in flush one side with 20 x 75mm tongued, grooved and V-jointed both sides vertical boarding fixed in and including grooves in styles and top rail | No | 1 |
| <u>Solid laminated flush panel doors with hardboard face suitable for paint both sides and two wrought Meranti concealed vertical edge strips</u> | | | |
| 4 | 40mm x 0,813 x 1,882m Door | No | 1 |
| 5 | 40mm x 1,613 x 2,032m Double door in two equal leaves hung folding with rebated meeting edges | No | 1 |
| <u>Semi-solid laminated flush panel doors with Meranti veneer both sides and two matching concealed vertical edge strips</u> | | | |
| 6 | 40mm x 0,813 x 2,032m Door | No | 4 |

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Carpentry and Joinery

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| Item No | | Quantity | Rate | Amount |
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| SECTION 2 | | | | |
| BILL No. 6 | | | | |
| <u>CEILING, PARTITIONS AND ACCESS FLOORING</u> | | | | |
| NOTE | | | | |
| Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | | |
| <u>CEILING</u> | | | | |
| <u>Fibreglass insulation</u> | | | | |
| 1 | 50mm Insulation closely fitted and laid on top of branderling between roof timbers etc. | m2 | 305 | |
| <u>Plasterboard ceilings</u> | | | | |
| 2 | Horizontal ceiling formed of 6,4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips and 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers | m2 | 275 | |
| 3 | Extra over gypsum plasterboard ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 2 | |
| <u>Fibre-cement board ceilings</u> | | | | |
| 4 | Horizontal ceiling formed of 4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips and 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers | m2 | 26 | |
| 5 | Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 1 | |
| <u>Wrought Softwood</u> | | | | |
| 6 | 19 x 50mm Cornice fixed on flat to branderling | m | 154 | |
| Carried Forward to Summary of Section No. 2 | | | | |
| Section 2 Building Work Bill No. 6 Ceilings, Partitions and Access Flooring Completion of Skills Development Centre, Bredasdorp | | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION 2</u> | | | |
| | <u>BILL No. 7</u> | | | |
| | <u>IRONMONGERY</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish | | | |
| | <u>The following ironmongery fixed to doors, etc.</u> | | | |
| | <u>Bolts and latches</u> | | | |
| 1 | Roller ball catch for toilet doors and keep fixed to steel | No | 3 | |
| 2 | 150mm Satin chrome flush bolt with a short length of brass tubing let into concrete floor as keep | No | 1 | |
| | <u>Locks</u> | | | |
| 3 | Bathroom/WC mortice indicator lockset with satin chrome furniture | No | 3 | |
| 4 | 75mm Three lever upright mortice lockset with satin chrome furniture | No | 10 | |
| 5 | 75mm Three lever upright mortice rebated lockset with satin chrome furniture | No | 1 | |
| 6 | 75mm Four lever upright mortice lockset with satin chrome furniture | No | 1 | |
| | <u>Door closers</u> | | | |
| 7 | Overhead surface mounted type door closer with aluminium casing | No | 2 | |
| | <u>Sundries</u> | | | |
| 8 | 38mm Rubber door stop plugged and screwed to wall or floor | No | 12 | |
| | Carried to Collection | | | |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 7 | | | |
| | Ironmongery | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |
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| | | | |
|--|--|----|---|
| 1 | 19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall | No | 4 |
| 2 | Approved white built-in type medicine cabinet size 380 x 610 x 100mm deep with mirror front and glass shelves and building in in tiled or plastered wall including forming recess in brickwork and making good | No | 1 |
| <u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u> | | | |
| 3 | 190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork | No | 2 |
| 4 | 75 x 150mm Aluminium international toilet sign with MALE and/or FEMALE figure screwed to door | No | 2 |

Kitchen Cupboard Units

NOTE

The kitchen cupboard units shall be of steel construction with baked enamel finish of approved colour with 18mm interior particle board worktops finished on one side and on edges with 1,2mm standard grade high pressure plastic laminate of approved pattern and colour

Adjacent worktops of different units shall be neatly butt-jointed and finished off with matching cover strips and prices are to include for same

All doors are to be supplied with standard locks and duplicate keys and prices of units are to include for lockable doors where applicable

Prices for sink units are to include for stainless steel sinks with draining boards with single or double sinks, each complete with chromium plated flanged waste fitting, plug and chain

Prices for all units are to include for fixing in position to plastered walls and on floors with screed, protecting against injury and cleaning down on completion

Floor and sink units

| | | | |
|---|--|----|---|
| 5 | Sink unit 1350mm long with single bowl sink and drainer, one shelf and three doors | No | 1 |
|---|--|----|---|

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 Ironmongery
Completion of Skills Development Centre, Bredasdorp

Writing boards, Projection screens, etc.

- | | | | |
|---|--|----|---|
| 1 | Standard vitreous enamelled magnetic green board as SABS CKS-36-1980, consisting of one fixed panel size 1,8 x 1,14m high complete with aluminium chalk rail and fixing components fixed to wall | No | 2 |
| 2 | Pull down PVC screen size 2450mm wide x 1420mm high (viewing area 2350 x 1320mm) with wall mounted code SC0400 keystone brackets adjustable set of 2, size 300mm supplied and installed with all necessary accessories | No | 2 |

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Bill No. 7

Ironmongery

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| | SECTION 2 | | | |
| | BILL No. 8 | | | |
| | METALWORK | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | Mild Steel | | | |
| | <u>The following in twelve framed and welded mild steel security gates and fixing in position complete</u> | | | |
| 1 | Single gate size 840mm x 2067mm high overall formed of 40 x 60 x 2mm rectangular hollow section framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing including hinges, locking devices, etc | No | 9 | |
| 2 | Double gate size 1.72m x 2.07m high overall in two equal leaves, each leaf formed of 40 x 60 x 2mm rectangular hollow section framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with four 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing including hinges, locking devices, etc. | No | 1 | |
| | Hot-dipped galvanised mild steel | | | |
| | NOTE | | | |
| | The following are to be hot-dipped galvanised after fabrication of complete units | | | |
| | <u>Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts</u> | | | |
| 3 | 32mm Grab rail 700mm long with two 80mm return ends bolted | No | 1 | |
| | Carried to Collection | | | R |
| | Section 2 Building Work Bill No. 8 Metalwork Completion of Skills Development Centre, Bredasdorp | | | |

| | | | |
|---|--|----|----|
| 1 | 32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted | No | 1 |
| <u>Door frames, Doors, Windows, etc.</u> | | | |
| <u>Galvanised pressed steel door frames</u> | | | |
| <u>1,2mm Double rebated pressed steel door frames suitable for half brick walls</u> | | | |
| 2 | Door frame for door size 0,761 x 2,134m with two 100mm steel butts without striking plate or opening in frame and prepared for roller catch or closet indicators | No | 1 |
| <u>1,2mm Double rebated pressed steel door frames suitable for one brick walls</u> | | | |
| 3 | Door frame for door size 0,914 x 2,134m with two 100mm steel butts without striking plate or opening in frame and prepared for roller catch or closet indicators | No | 2 |
| 4 | Door frame for door size 0,914 x 2,134m with two 100mm steel butts and slotted for lock strike | No | 9 |
| 5 | Door frame for door size 1,511m x 2,032m with two 100mm steel butts and slotted for lock strike | No | 1 |
| <u>Galvanised pressed steel door frame sundries</u> | | | |
| 6 | Standard residential window section RFX7 as threshold welded on to pressed steel door frame | m | 13 |
| <u>Aluminium windows</u> | | | |
| Note: Tenderers are referred to architect's drawings numbered A102 annexed to these bills of quantities/accompanying these bills of quantities for tender purposes | | | |
| The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained | | | |
| Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 20 x 5mm galvanised mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame | | | |
| Bars in front of fixed sections to be bent 75mm away from the glass surface | | | |
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| Section 2 Building Work Bill No. 8 Metalwork Completion of Skills Development Centre, Bredasdorp | | | |

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Epoxy powder coated aluminium windows glazed with 6mm laminated safety glass and plugged to brickwork or concrete

| | | | |
|---|--|----|----|
| 1 | Window size 600mm x 600mm high overall | No | 5 |
| 2 | Window size 900mm x 600mm high overall | No | 1 |
| 3 | Window size 600mm x 1500mm high overall | No | 4 |
| 4 | Window size 1200mm x 600mm high overall | No | 2 |
| 5 | Window size 1500mm x 600mm high overall | No | 5 |
| 6 | Window size 1500mm x 1500mm high overall | No | 2 |
| 7 | Window size 2100mm x 1500mm high overall | No | 10 |

Epoxy coated anodised aluminium doors, sidelights and fanlights glazed with 6mm laminated safety glass and plugged to brickwork or concrete

| | | | |
|---|--|----|---|
| 8 | Trislide door reference TS2436R3 size 3600mm x 2397mm high overall with locking mechanism, handles, etc. | No | 1 |
|---|--|----|---|

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 Bill No. 8
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Building Work

Bill No. 8

Metalwork

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Building Work

Bill No. 8

Metalwork

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| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | SECTION 2 | | | |
| | BILL No. 9 | | | |
| | PLASTERING | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | Internal Plaster | | | |
| | <u>One coat cement plaster on concrete or brickwork</u> | | | |
| 1 | On walls | m2 | 185 | |
| 2 | On narrow widths | m2 | 3 | |
| | <u>One coat (3:1) cement plaster finished to a smooth and even steel trowelled surface</u> | | | |
| | <u>On concrete</u> | | | |
| 3 | On ceilings | m2 | 7 | |
| | External Plaster | | | |
| | <u>One coat cement plaster on concrete or brickwork</u> | | | |
| 4 | On walls | m2 | 112 | |
| 5 | On narrow widths | m2 | 3 | |
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| | Building Work | | | |
| | Bill No. 9 | | | |
| | Plastering | | | |
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| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | SECTION 2 | | | |
| | BILL No. 10 | | | |
| | TILING | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | Wall Tiling | | | |
| | <u>198 x 198 x 6mm White glazed ceramic wall tiles fixed with an approved adhesive to plaster (plaster elsewhere) and with jointing compound</u> | | | |
| 1 | To walls | m2 | 115 | |
| | Floor Tiling | | | |
| | <u>300 x 300mm x 9mm Full body porcelain tiles in matt finish laid to approved pattern using approved adhesive and grout, colour and pattern to architect's approval. The tenderer to allow an amount of R160.00 per square meter (exclusive of VAT) for the supply of tiles only and include for all waste, labour and profit in the applicable "rate"</u> | | | |
| 2 | On floors | m2 | 275 | |
| 3 | Cut tile skirting 100mm high | m | 154 | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section 2 Building Work Bill No. 10 Tiling Completion of Skills Development Centre, Bredasdorp | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION 2</u> | | | |
| | <u>BILL No. 11</u> | | | |
| | <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>Gutters, downpipes, etc.</u> | | | |
| | <u>0,6mm Galvanised sheet iron Class Z 275</u> | | | |
| 1 | 100 x 125mm Rectangular section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and rivetted at 20mm centres | m | 91 | |
| 2 | Extra for stopped end | No | 12 | |
| 3 | Extra for outlet with nozzle for and jointed to 75mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating | No | 10 | |
| 4 | 75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete | m | 42 | |
| 5 | Extra for shoe | No | 12 | |
| 6 | Extra for eaves offset | No | 12 | |
| | <u>Sanitary Fittings</u> | | | |
| 7 | 560 x 405mm White vitreous china wash hand basin complete with and including one chromium plated pillar tap, one tap hole plug, waste, plug and chain and concealed brackets | No | 3 | |
| 8 | 560 x 405mm White vitreous china wash hand basin complete with and including one chromium plated elbow action pillar tap, one tap hole plug, waste, plug and chain and concealed brackets | No | 1 | |
| | Carried to Collection | | | |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 11 | | | |
| | Plumbing and Drainage (Provisional) | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |
| | | | R | |

| | | | |
|---|---|----|----|
| 1 | 610 x 385mm White vitreous china wall urinal with top flush entry complete with and including concealed wall hangers, chromium plated waste outlet and grating, and 4,5 litre white vitreous china cistern complete with valveless syphonic fitting, ball valve, bracket, surface mounted chromium plated push button user control valve with plastic conduit pipe and chromium plated flush pipe with spreader | No | 2 |
| 2 | WC suite comprising white vitreous china pan with P trap, 9 litre low-level white vitreous china cistern complete with valveless syphonic fitting, ball valve and matching flush pipe and heavy duty white single flap seat | No | 5 |
| | <u>Taps, valves,etc</u> | | |
| | <u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u> | | |
| 3 | 32-40mm Butyl rubber deep seal P or S trap | No | 4 |
| 4 | 40-40mm Chromium plated bottle trap | No | 1 |
| | <u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u> | | |
| 5 | 15mm Copper service pipe 350mm girth | No | 10 |
| 6 | 15mm Chromium plated full way ballcock shut-off control valve with screw type control | No | 12 |
| 7 | 15mm Sink mixer with waste union | No | 1 |

Sanitary Plumbing

uPVC pipes and fittings

| | | | |
|----|---|----|----|
| 8 | 50mm Pipe laid in/under floors or fixed to walls, roof timbers, etc. | m | 38 |
| 9 | 100mm Pipe laid in/under floors or fixed to walls, roof timbers, etc. | m | 52 |
| | <u>Extra over uPVC pipes for fittings</u> | | |
| 10 | 100 x 50mm Reducer | No | 2 |
| 11 | 100mm Bend | No | 8 |
| 12 | 100mm Junction | No | 4 |
| 13 | 100mm Pan connector | No | 5 |

Carried to Collection

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Section 2
 Building Work
 Bill No. 11
 Plumbing and Drainage (Provisional)
Completion of Skills Development Centre, Bredasdorp

| | | | |
|--|---|----|----|
| 1 | 100mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste | No | 2 |
| 2 | 100mm Access bend | No | 5 |
| 3 | 100mm Access bend with anti-syphon horn | No | 2 |
| 4 | 100mm Access junction | No | 2 |
| 5 | 100mm Access reducing junction | No | 2 |
| 6 | Two way PVC vent valve suitable for 50mm pipe | No | 2 |
| <u>Galvanised mild steel screwed and socketed pipes and fittings</u> | | | |
| 7 | 50mm Pipe and excavation not exceeding 1m deep | m | 30 |
| 8 | 50mm Pipe laid in/under floors or fixed to walls, roof timbers, etc. | m | 15 |
| <u>Extra over galvanised mild steel pipes for galvanised mild steel fittings</u> | | | |
| 9 | 50mm Bend | No | 6 |
| 10 | 50mm Bush | No | 4 |
| <u>Extra over galvanised mild steel pipes for brass fittings</u> | | | |
| 11 | 50mm Bend | No | 4 |
| 12 | 50mm Bend with cleaning eye | No | 2 |
| 13 | 50mm Junction with cleaning eye | No | 2 |
| 14 | 50mm Reducing junction with cleaning eye | No | 1 |
| <u>Sundries</u> | | | |
| 15 | Wire balloon grating in top of pipe not exceeding 100mm diameter | No | 2 |

Water Supply

Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections

| | | | |
|----|--|---|----|
| 16 | 15mm Pipe laid in/under floors or fixed to walls, roof timbers, etc. | m | 22 |
| 17 | 15mm Pipe fixed in and including chase in walls | m | 28 |

Carried to Collection

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Section 2
 Building Work
 Bill No. 11
 Plumbing and Drainage (Provisional)
Completion of Skills Development Centre, Bredasdorp

| | | | |
|---|--|----|------|
| | <u>Extra over class O copper pipes for soldered capillary fittings</u> | | |
| 1 | 15mm Fittings | No | 18 |
| | <u>Electric water heaters</u> | | |
| | <u>"Kwikot" or similar approved</u> | | |
| 2 | 150 Litre horizontal wall mounted electric water heater | No | |
| | <u>Fire Service</u> | | |
| | <u>Galvanised mild steel screwed and socketed pipes and fittings</u> | | |
| 3 | 25mm Pipe laid in/under floors or fixed to walls, roof timbers, etc. | m | 35 |
| | <u>Extra over galvanised mild steel pipes for galvanised mild steel fittings</u> | | |
| 4 | 25mm Fittings | No | 12 |
| | <u>Fire appliances etc.</u> | | |
| 5 | 4,5kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook | No | 2 |
| 6 | Fire hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket bolted to wall with and including expansion bolts | No | 2 |
| | <u>Testing</u> | | |
| 7 | Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order | | Item |
| | <u>Builder's work, including all making good</u> | | |
| | <u>Masonry</u> | | |
| 8 | Fair cutting and fitting of facings around pipe not exceeding 100mm diameter | No | 10 |
| | <u>Paintwork</u> | | |
| | Carried to Collection | | |
| | Section 2 Building Work Bill No. 11 Plumbing and Drainage (Provisional) Completion of Skills Development Centre, Bredasdorp | | |

R

Prepare, prime with a self-etching primer and apply one coat universal undercoat and one full coat high gloss enamel paint

1 On galvanised mild steel pipe not exceeding 300mm girth m 3

Carried to Collection

R

Section 2
Building Work
Bill No. 11
Plumbing and Drainage (Provisional)
Completion of Skills Development Centre, Bredasdorp

Section 2

Building Work

Bill No. 11

Plumbing and Drainage (Provisional)

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Building Work

Bill No. 11

Plumbing and Drainage (Provisional)

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | SECTION 2 | | | |
| | BILL No. 12 | | | |
| | GLAZING | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>Mirrors</u> | | | |
| | NOTE | | | |
| | Mirrors shall be of 6mm thick silvered GG quality polished float glass with rounded and polished edges and splayed corners | | | |
| | Unless otherwise described, mirrors shall have four holes for and be screwed to and including approved patent plugs in plastered or tiled wall with countersunk steel screws tap-threaded for and including screw type chromium plated dome-headed caps and felt washers | | | |
| 1 | Mirror size 450 x 600mm | No | 4 | |
| | Carried Forward to Summary of Section No. 2 | | | |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 12 | | | |
| | Glazing | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |
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| Item No | SECTION 2 | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 13</u> | | | |
| | <u>PAINTWORK</u> | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | <u>Paint on plaster, etc.</u> | | | |
| | <u>Prepare, stop and apply one coat alkali resistant pure acrylic filler coat and one full coat washable mat acrylic PVA paint</u> | | | |
| 1 | On internal plastered walls | m2 | 709 | |
| 2 | On external plastered walls | m2 | 623 | |
| 3 | On internal plastered ceilings | m2 | 7 | |
| | <u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u> | | | |
| 4 | On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer | m2 | 275 | |
| | <u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u> | | | |
| 5 | On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer | m2 | 30 | |
| | <u>Prepare, stop and apply one coat alkali resistant primer, one coat universal undercoat and two full coats enamel paint to comply with SABS Specification No. 630 Type 2</u> | | | |
| 6 | On internal fibre-cement board ceilings and cornices including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer | m2 | 26 | |
| | <u>Paint on metal</u> | | | |
| | Carried to Collection | | | |
| | Section 2 | | | |
| | Building Work | | | |
| | Bill No. 13 | | | |
| | Paintwork | | | |
| | Completion of Skills Development Centre, Bredasdorp | | | |
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| | | | |
|---|--|----|-----|
| | <u>Prepare and apply two coats bitumen paint</u> | | |
| 1 | On inside of 100 x 125mm galvanised sheet iron eaves gutter before fixing | m | 91 |
| | <u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u> | | |
| 2 | On pressed steel door frames | m2 | 20 |
| | <u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u> | | |
| 3 | On grille gates and screens (both sides measured on flat) | m2 | 30 |
| | <u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats eggshell enamel paint</u> | | |
| 4 | On pressed steel trap door and frame | m2 | 1 |
| | <u>Paint on wood</u> | | |
| | <u>Prepare, stop and apply three full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u> | | |
| 5 | On general surfaces | m2 | 46 |
| | <u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u> | | |
| 6 | On general surfaces | m2 | 23 |
| 7 | On cornices, etc. not exceeding 300mm girth | m | 154 |

Carried to Collection

R

Section 2
 Building Work
 Bill No. 13
 Paintwork
Completion of Skills Development Centre, Bredasdorp

Section 2

Building Work

Bill No. 13

Paintwork

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Section 2

Building Work

Bill No. 13

Paintwork

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | SECTION 2 | | | |
| | BILL No. 14 | | | |
| | ELECTRICAL INSTALLATIONS | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | CONDUIT INSTALLATION | | | |
| | Note: Tenderers are to allow for drilling/cutting of holes to all wireways, DBs, etc. | | | |
| | <u>Galvanised Conduit and Accessories</u> | | | |
| | <u>Galvanised conduit including cutting, threading, reaming, couplings, bushes, locknuts and fixing accessories installed in various lengths in closed roof space, cast into concrete, fixed into brick/concrete, chased or built into brick walls in accordance with the electrical specification:</u> | | | |
| 1 | 20mm Diameter | | | |
| | Supply | m | 180 | |
| | Install | m | 180 | |
| 2 | 25mm Diameter | | | |
| | Supply | m | 60 | |
| | Install | m | 60 | |
| | <u>Wall Boxes</u> | | | |
| | <u>Galvanised wall boxes installed flush</u> | | | |
| 3 | All sizes up to 100 x 100 x 100mm | | | |
| | Supply | No | 34 | |
| | Install | No | 34 | |
| | Carried to Collection | | | R |
| | Section 2 Building Work Bill No. 14 Electrical Installations Completion of Skills Development Centre, Bredasdorp | | | |

| | | | | |
|--|---|----|----|---|
| <u>Watertight York Box</u> | | | | |
| 1 | Watertight York box - flush mounted; all sizes up to 200 x 200 x 150mm with lid | | | |
| | Supply | No | 1 | |
| | Install | No | 1 | |
| <u>Switch Socket Outlets</u> | | | | |
| <u>Supply and install 16A, 3 pin switch socket outlets complete with accessories including cover plates</u> | | | | |
| 2 | Normal supply, single SSO (round earth pin, white) | | | |
| | Supply | No | 25 | |
| | Install | No | 25 | |
| <u>Isolators</u> | | | | |
| <u>Supply and install isolators with accessories including cover plates, screws, etc in galvanised steel boxes or power skirting</u> | | | | |
| 3 | 10A Double pole | | | |
| | Supply | No | 12 | |
| | Install | No | 12 | |
| 4 | 20A Double pole | | | |
| | Supply | No | 8 | |
| | Install | No | 8 | |
| 5 | 30A Tripple pole | | | |
| | Supply | No | 1 | |
| | Install | No | 1 | |
| 6 | 60A Main earth leakage | | | |
| | Supply | No | 1 | |
| | Install | No | 1 | |
| <u>Power Skirting</u> | | | | |
| Carried to Collection | | | | |
| Section 2 Building Work Bill No. 14 Electrical Installations Completion of Skills Development Centre, Bredasdorp | | | | R |

Supply and install power skirting including covers, internal and external bends and all necessary accessories to form an installation to the satisfaction of the Engineer:

| | | | |
|---|--|----|----|
| 1 | 3-Compartment, 2-Cover type power skirting in straight lengths | | |
| | Supply | m | 25 |
| | Install | m | 25 |
| 2 | End caps | | |
| | Supply | No | 4 |
| | Install | No | 4 |
| 3 | Internal/External elbows | | |
| | Supply | No | 8 |
| | Install | No | 8 |

Appliance Connection

Connection of appliances supplied by others including connections and all sundry installation materials as may be required in accordance with the electrical specification

| | | | |
|---|-----------------------------|----|---|
| 4 | 1-Phase stove, geysers, etc | | |
| | Supply | No | 2 |
| | Install | No | 2 |

WIRING

Supply and install PVC insulated copper wire conductors drawn into conduit and wireways in random lengths and various colours

| | | | |
|---|--|---|-----|
| 5 | 2.5mm ² | | |
| | Supply | m | 400 |
| | Install | m | 400 |
| 6 | 2.5mm ² Insulated earth conductor | | |
| | Supply | m | 400 |
| | Install | m | 400 |

Carried to Collection

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Section 2
 Building Work
 Bill No. 14
 Electrical Installations
Completion of Skills Development Centre, Bredasdorp

Light Switches

Supply and install including connections of the light switches complete with cover plate and accessories

| | | | |
|---|-------------------------|----|----|
| 1 | 16A 1 lever 1 way | | |
| | Supply | No | 20 |
| | Install | No | 20 |
| 2 | 16A 1 lever 2 way | | |
| | Supply | No | 6 |
| | Install | No | 6 |
| 3 | 16A 1 lever water tight | | |
| | Supply | No | 2 |
| | Install | No | 2 |

LUMINAIRES

Luminaires complete with mounting brackets, control gear, lamps etc as specified and installed/mounted to round draw boxes in ceiling/brickwork, including all fixings, brackets, supports, connectors, connections and lamps to complete the installation:

| | | | |
|---|---|----|----|
| 4 | 2 x 18W, CFL - Outdoor square bulkhead | | |
| | Supply | No | 10 |
| | Install | No | 10 |
| 5 | 2 x 36W Fluorescent luminaire - cool white surface mounted with low brightness diffuser | | |
| | Supply | No | 22 |
| | Install | No | 22 |
| 6 | 250W, HPS-T Security outdoor flood light | | |
| | Supply | No | 4 |
| | Install | No | 4 |

Carried to Collection

R

Section 2
Building Work
Bill No. 14
Electrical Installations
Completion of Skills Development Centre, Bredasdorp

Photocells

1 Supply and install photocells complete including all labour and material; the photocell to be housed in a bulkhead housing

Supply

No

2

Install

No

2

Certificate of Compliance

2 Carrying out of all required testing as per SANS 10142 to be able to issue a Certificate of Compliance for the entire electrical installation.

Supply

Item

Install

Item

Carried to Collection

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Building Work
Bill No. 14
Electrical Installations
Completion of Skills Development Centre, Bredasdorp

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Building Work

Bill No. 14

Electrical Installations

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Building Work

Bill No. 14

Electrical Installations

Completion of Skills Development Centre, Bredasdorp

Section 2

Building Work

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| 2 | Masonry | -44- | |
| 3 | Waterproofing | -45- | |
| 4 | Roof Coverings, etc | -46- | |
| 5 | Carpentry and Joinery | -51- | |
| 6 | Ceilings, Partitions and Access Flooring | -52- | |
| 7 | Ironmongery | -56- | |
| 8 | Metalwork | -60- | |
| 9 | Plastering | -61- | |
| 10 | Tiling | -62- | |
| 11 | Plumbing and Drainage (Provisional) | -68- | |
| 12 | Glazing | -69- | |
| 13 | Paintwork | -72- | |
| 14 | Electrical Installations | -78- | |

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Section 2

Building Work

Completion of Skills Development Centre, Bredasdorp

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | SECTION 3 | | | |
| | BILL No. 1 | | | |
| | SECURITY FENCING (PROVISIONAL) | | | |
| | NOTE | | | |
| | Tenderers are advised to study the "Specification of Materials and Methods to be used" (PW 371) before pricing this bill | | | |
| | Metalwork | | | |
| | <u>"ClearVu" or equal and approved Category 3 Security Fencing System</u> | | | |
| 1 | Supply and install fencing comprising of steel mesh panels size 3297 x 2400mm high at 3382mm centres, 4mm diameter hot dipped galvanised wire with aperture size 76,2mm x 12.7mm, panels to be reinforced with 4 x 50mm "V" recessed bands with 2 x 75mm 70 degree flanges along sides, including posts cast into 600mm deep x 400mm wide 15Mpa concrete base on one side, posts 85 x 45mm tapered, hot dipped galvanised and polymetic 6000 coated, including all single and double bolt comb clamps galvanised and polymetic 6000 coated and antivandal galvanised bolts, the fence fitted with anti-climb comprising of 100mm high galvanised "shark tooth" type spike rails, bolted to 50mm wide ClearVu mesh flange bent along fence on top, fitted with anti-burrow comprising of 500mm ripper flatwrap at the bottom, all installed according to manufacturer's instructions and specifications, suitable for coastal areas | m | 222 | |
| | <u>"ClearVu" Gate and Posts, etc.</u> | | | |
| 2 | Double gate size 5900 x 2400mm high overall in two equal leaves, each leaf fitted with similar and equal to the fence ant-climb on top structures and ant-burrow at the bottom structures, including all accessories and installed in accordance with manufacturer's instructions | No | 1 | |
| | Carried to Final Summary | | | R |
| | Section 3 External Works Bill No. 1 Security Fencing Completion of Skills Development Centre, Bredasdorp | | | |

FINAL SUMMARY

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- 1 Preliminaries
- 2 Building Work
- 3 External Works

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Sub-total

R

Contingencies

Allow the sum of R200 000.00 (Two Hundred Thousand Rand only) for contingencies, to be deducted wholly or in part, if not required

SUM

200000.00

Sub-total

R

Value Added Tax (VAT)

Add VAT 14%

R

Carried to Form of Offer and Acceptance

R

Completion of Skills Development Centre, Bredasdorp