

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <u>SECTION No. 1 - PRELIMINARIES</u> | | | |
| <u>BILL NO. 1</u> | | | |
| <u>PRELIMINARIES</u> | | | |
| <u>MEANING OF TERMS "TENDER / TENDERER"</u> | | | |
| Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" | | | |
| <u>PRELIMINARIES</u> | | | |
| The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable" | | | |
| <u>PRICING OF PRELIMINARIES</u> | | | |
| Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item | | | |
| Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities | | | |
| Carried to Collection | | | |
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| Bill No. 1 | | | |
| PRELIMINARIES AND GENERAL | | | |
| TSHATSHATSHA PRIMARY SCHOOL | | | |
| PROVISIONAL BILL OF QUANTITIES | | | |

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

"COMMENCEMENT DATE" means the date that is 5 working days after site hand over.

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:

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

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

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:

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

and

(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

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

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

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

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"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: _____

Item

OBJECTIVE AND PREPARATION

1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A3.0 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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|--|--|------|---|--|
| 1 | A4.0 DESIGN RESPONSIBILITY Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | A5.0 EMPLOYER'S AGENTS Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents. Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 4 | A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | A8.0 WORKS RISK Clause 8.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
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|---|---|------|--|---|--|
| 1 | <p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | | | | |
| 2 | <p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(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</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(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</p> | Item | | | |
| | <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | | R | |

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 **contractor's** own costs

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10.7.2 Injury to persons or loss of or damage to property

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

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|---|--|------|---|--|
| 1 | A11.0 LIABILITY INSURANCES Clause 11.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | A12.0 EFFECTING INSURANCES Clause 12.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | A13.0 No clause | N/A | | |
| 4 | A14.0 SECURITY Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) 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 <i>mutatis mutandi</i> in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected: 14.2.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B) | | | |
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14.2.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within fourteen (14) **calendar days** of **commencement date**

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 A16.0 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

2 A17.0 CONTRACT INSTRUCTIONS

Clause 17.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

3 A18.0 SETTING OUT OF THE WORKS

Clause 18.0

Fixed: _____ Value related: _____ Time related: _____

Item

4 A19.0 ASSIGNMENT

Clause 19.0

Fixed: _____ Value related: _____ Time related: _____

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|--|---|------|---|--|
| 1 | <p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> | Item | | |
| 2 | <p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> | Item | | |
| 3 | <p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> | Item | | |
| 4 | <p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> | Item | | |
| <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | | R | |

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| <u>COMPLETION</u> | | | | |
| 1 | A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | A25.0 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | A26.0 FINAL COMPLETION Clause 26.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 4 | A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 6 | A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed: _____ Value related: _____ Time related: _____ | Item | | |
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|---|--|------|---|--|
| 1 | <p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>PAYMENT</u></p> | Item | | |
| 2 | <p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 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:</p> <p>31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine percent (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</p> <p>31.8(A).4 One hundred percent (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</p> <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | R | |

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

Fixed: _____ Value related: _____ Time related: _____

Item

1 A32.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

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

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

Add the following clauses: 33.2.9 to 33.2.13:

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

2 A33.0 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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|---|---|------|--------------------------------------|
| 1 | <p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>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"</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> | Item | |
| 2 | <p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>CANCELLATION</u></p> | Item | |
| 3 | <p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> | | |
| | <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | <p style="text-align: center;">R</p> |

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

36.3 Remove reference to "No clause", and replace "principal agent" with "employer"

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

Clause 37.0

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

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

37.3.5 Replace "ninety (90)" with "one hundred and twenty (120)" and 38.5.4

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 38.0

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

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

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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

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

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence:

"within one hundred and twenty (120) **working days** of completion of such a report"

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| 1 | <p><u>DISPUTE</u></p> <p>A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p> | Item | | |
| 2 | <p>A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| 3 | <p><u>CONTRACT VARIABLES</u></p> <p>A42.0 THE SCHEDULE (C1.2)</p> <p>Clause 42.0</p> <p>Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| | <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | R | |

SECTION B: JBCC PRELIMINARIES**B1.0 DEFINITIONS AND INTERPRETATION****1 B1.1 Definitions and interpretation**

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS**2 B2.1 Checking of documents**

Fixed: _____ Value related: _____ Time related: _____

Item

3 B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

4 B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

5 B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

6 B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

7 B2.6 Tender submission

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

Fixed: _____ Value related: _____ Time related: _____

Item

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| | | | | |
|---|---|------|--|--|
| | <u>B3.0 THE SITE</u> | | | |
| 1 | B3.1 Defined works area Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | B3.2 Geotechnical investigation Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | B3.3 Inspection of the site Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 4 | B3.4 Existing premises occupied Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | B3.5 Previous work - dimensional accuracy Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 6 | B3.6 Previous work - defects Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 7 | B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 8 | B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 9 | B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____ | Item | | |
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| | | | | |
|---|--|------|--|--|
| 1 | B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| | <u>B4.0 MANAGEMENT OF CONTRACT</u> | | | |
| 3 | B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____ | Item | | |
| 4 | B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 6 | B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 7 | B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| | <u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u> | | | |
| 8 | B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| | Carried to Collection | | | |
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| | | | | |
|---|--|------|---|--|
| 1 | B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| | <u>B6.0 TEMPORARY WORKS AND PLANT</u> | | | |
| 4 | B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 6 | B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 7 | B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 8 | B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 9 | B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| | Carried to Collection | | R | |
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B7.0 TEMPORARY SERVICES1 **B7.1 Location**

Fixed: _____ Value related: _____ Time related: _____

Item

2 **B7.2 Water**

Fixed: _____ Value related: _____ Time related: _____

Item

3 **B7.3 Electricity**

Fixed: _____ Value related: _____ Time related: _____

Item

4 **B7.4 Telecommunication facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

5 **B7.5 Ablution facilities**

Fixed: _____ Value related: _____ Time related: _____

Item

B8.0 PRIME COST AMOUNTS6 **B8.1 Responsibility for prime cost amounts**

Fixed: _____ Value related: _____ Time related: _____

Item

B9.0 ATTENDANCE ON N/S SUBCONTRACTORS7 **B9.1 General attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

8 **B9.2 Special attendance**

Fixed: _____ Value related: _____ Time related: _____

Item

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| | | | | |
|--|---|------|---|--|
| 1 | <p>B9.3 Commissioning - fuel, water and electricity</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B10.0 FINANCIAL ASPECTS</u></p> | Item | | |
| 2 | <p>B10.1 Statutory taxes, duties and levies</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| 3 | <p>B10.2 Payment for preliminaries</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| 4 | <p>B10.3 Adjustment of preliminaries</p> <p>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"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| 5 | <p>B10.4 Payment certificate cash flow</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>B11.0 GENERAL</u></p> | Item | | |
| 6 | <p>B11.1 Protection of the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
| 7 | <p>B11.2 Protection / isolation of existing / sectionally occupied works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> | Item | | |
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| | | | | |
|--|---|------|---|--|
| 1 | B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 2 | B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 3 | B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 4 | B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 5 | B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 6 | B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 7 | B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 8 | B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____ | Item | | |
| 9 | B11.11 As built information Fixed: _____ Value related: _____ Time related: _____ | Item | | |
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| | | | |
|---|--|------|---|
| 1 | <p>B11.12 Tenant installations</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p>B12.0 SCHEDULE OF VARIABLES</p> | Item | |
| 2 | <p>B12.1 Schedule of variables</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p>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</p> <p>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</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities [2.2] The quantities are provisional</p> <p style="text-align: right;">YES</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i></p> <p style="text-align: right;">YES</p> <p>12.1.3 Interests of agents [2.4] Details:</p> <p>12.1.4 Defined works area [3.1] Details:</p> <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.1 - PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | Item | R |

12.1.5 **Geotechnical investigation**

[3.2] Details:

12.1.6 **Existing premises occupied**

[3.4] Specific requirements:

12.1.7 **Previous work - dimensional accuracy**

[3.5] Details:

12.1.8 **Previous work - defects**

[3.6] Details:

12.1.9 **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

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

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12.1.14 **Main notice board**

[6.5] Specific requirements:

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

12.1.15 **Subcontractors' notice board**[6.6] *A notice board is required*

Specific requirements:

NO12.1.16 **Water**[7.2] Option A (by **contractor**)**NO**Option B (by **employer** - free of charge)**NO**Option C (by **employer** - metered)**YES****Carried to Collection**

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12.1.17 Electricity**[7.3]** Option A (by **contractor**)**NO**Option B (by **employer** - free of charge)**NO**Option C (by **employer** - metered)**YES****12.1.18 Telecommunications****[7.4]** Telephone**YES**

Facsimile

YES

E-mail

YES**12.1.19 Ablution facilities****[7.5]** Option A (by **contractor**)**YES**Option B (by **employer**)**NO****12.1.20 Protection of existing/sectionally occupied works****[11.2]** Protection is required**NO****Carried to Collection****R**

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12.1.21 **Special attendance**[9.2] **Subcontractor** (1) details:**Subcontractor** (2) details:**Subcontractor** (3) details:**Subcontractor** (4) details:12.1.22 **Protection of the works**

[11.1] Specific requirements:

12.1.23 **Disturbance**

[11.5] Specific requirements:

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

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)

NO

Option B (calculated)

YES**Carried to Collection**

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12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES12.2.3 **Additional agreed preliminaries items**

Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 C1.0 CONTRACT DRAWINGS

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 C2.0 GENERAL PREAMBLES

The document "Specification of Materials and Methods to be used - PW371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014)." is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____
Time related: _____

Item

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1 **C3.0 TRADE NAMES**

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

2 **C4.0 HIV/AIDS AWARENESS**

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

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 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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C4.1 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

C4.2 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

C4.3 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

C4.4 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

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C4.5 MONITORING

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

Fixed: _____ Value related: _____
Time related: _____

Item

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| Item No | Quantity | Rate | Amount |
|--|--|------|--------|
| <u>BILL No. 2</u> | | | |
| <u>HEALTH AND SAFETY REQUIREMENTS</u> | | | |
| <u>Note:</u> | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications. | | | |
| Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. | | | |
| The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications. | | | |
| <u>OCCUPATIONAL HEALTH AND SAFETY</u> | | | |
| <u>General:</u> | | | |
| 1 | Preparation of Contractor's site specific Health and Safety Plan. | Item | |
| 2 | Submission of the Health and Safety File. | Item | |
| 3 | Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations. | Item | |
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| | | | |
|--|--|----|------|
| 1 | Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period. | | Item |
| 2 | Provision of full time Health and Safety Officer for the entire construction period. | | Item |
| 3 | Induction training of personnel. | No | |
| 4 | Provision of first aid boxes. | No | |
| <u>Provision for Personal Protective Equipment and Protective Clothing:</u> | | | |
| 5 | Reflective vests. | No | |
| 6 | Hard hats. | No | |
| 7 | Protective foot wear. | No | |
| 8 | Ear Plugs. | No | |
| 9 | Dust Masks. | No | |
| <u>Costs of Medical Certificates and Medical Surveillance:</u> | | | |
| 10 | Initial (baseline) medical examinations. | No | |
| 11 | Exit Examinations. | No | |
| <u>Noise Monitoring:</u> | | | |
| 12 | Establishment of noise zones. | No | |
| 13 | Audiograms. | No | |
| Carried to Collection | | | R |
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[illegible]

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SECTION No. 2 - PREFABRICATED BUILDINGS</u> | | | |
| | <u>BILL No. 1</u> | | | |
| | <u>PLATFORM CONSTRUCTION (ALL TRADES) PROVISIONAL</u> | | | |
| | <u>Note:</u> | | | |
| | For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| | <u>EXCAVATIONS, FILLING, ETC.</u> | | | |
| | <u>Classification of material to be excavated</u> | | | |
| | Detailed geotechnical data sheets for the area of the works have been included at the back of these Bills of Quantities for the Contractor's information. | | | |
| | <u>EXCAVATIONS FOR FOUNDATIONS, ETC.</u> | | | |
| | <u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u> | | | |
| 1 | Reduced levels under solid floors. | m3 | 138 | |
| 2 | Ground beams. | m3 | 24 | |
| | <u>Carting away of excavated material</u> | | | |
| 3 | Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. | m3 | 162 | |
| | <u>Risk of collapse of excavations</u> | | | |
| 4 | Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. | m2 | 161 | |
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|--|--|----|-------|--|
| <u>Keeping excavations free of water</u> | | | | |
| 1 | Allow for keeping the excavations free from water. | | Item | |
| <u>Filling</u> | | | | |
| 2 | Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors. | m3 | 230 | |
| 3 | 50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc. | m3 | 46 | |
| <u>Compaction of surfaces</u> | | | | |
| 4 | Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density. | m2 | 919 | |
| <u>Weedkillers, insecticides, etc.</u> | | | | |
| <u>Soil insecticide in accordance with SANS 5859</u> | | | | |
| 5 | Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming. | m2 | 1 081 | |
| <u>Tests</u> | | | | |
| 6 | Allow for Mod AASHTO density tests on filling. | No | 20.00 | |
| <u>CONCRETE</u> | | | | |
| <u>Mass concrete 10MPa (19mm stone) in:</u> | | | | |
| 7 | Blinking beneath bases, strip footings, etc cast against excavated surfaces. | m3 | 6 | |
| <u>Reinforced concrete 30MPa (19mm stone) in:</u> | | | | |
| 8 | Rafter slabs cast against excavated surfaces. | m3 | 147 | |
| <u>Surface treatment</u> | | | | |
| 9 | Powerfloating of concrete surface bed. | m2 | 919 | |
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|---|---|----|-------|---|--|
| <u>Test blocks and testing</u> | | | | | |
| 1 | Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional) | No | 20 | | |
| <u>Movement joints</u> | | | | | |
| 2 | 10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces. | m | 193 | | |
| <u>FORMWORK</u> | | | | | |
| <u>Rough formwork (use and waste) to concrete to:</u> | | | | | |
| <u>Edges, risers, ends and reveals</u> | | | | | |
| 3 | Edge, riser, etc not exceeding 300mm high. | m | 403 | | |
| <u>REINFORCEMENT (PROVISIONAL)</u> | | | | | |
| <u>Bar reinforcement</u> | | | | | |
| <u>Mild steel rod reinforcement to structural concrete work</u> | | | | | |
| 4 | 10mm Diameter bars. | t | 1.089 | | |
| <u>High tensile rod reinforcement to structural concrete work</u> | | | | | |
| 5 | 10mm Diameter bars. | t | 1.089 | | |
| 6 | 12mm Diameter bars. | t | 1.089 | | |
| 7 | 16mm Diameter bars. | t | 1.089 | | |
| <u>Welded mesh reinforcement</u> | | | | | |
| <u>High tensile welded steel mesh reinforcement :</u> | | | | | |
| 8 | Ref: 395 cast into concrete surfaces. | m2 | 919 | | |
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SHEET OR MEMBRANE WATERPROOFING**Sheet or membrane waterproofing to floors**250 Micron "Gunplas USB" green polyethylene sheeting

:

- | | | | |
|---|---|----|-------|
| 1 | Laid flat on prepared sand bed under solid floor. | m2 | 1 011 |
|---|---|----|-------|

WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC.**Joint sealants**To horizontal concrete surfaces

- | | | | |
|---|--|---|-----|
| 2 | Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer. | m | 193 |
|---|--|---|-----|

STEELTubular columns

- | | | | |
|---|--|----|----|
| 3 | 101.6mm Diameter x 3.0mm wall thickness hot dipped galvanised steel column, 2700mm long, with 200 x 200 x 6mm base plate welded on to one end and other end having U-shaped bracket, 460mm girth x 250mm long x 3mm plate thickness, eight times holed for bolts, welded on including setting up in position and embedding in concrete | No | 15 |
|---|--|----|----|

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| <u>BILL No. 2</u> | | | |
| <u>5 CLASSROOM BLOCK</u> | | | |
| <u>Note:</u> | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| <u>Construction Notes:</u> | | | |
| All construction materials are to be SABS or AGREEMENT South Africa Certified'. | | | |
| Prefabricated systems are to be presented to the Principal Agent for approval before construction commences. | | | |
| Concrete strip footings and slab to be constructed by the main contractor. | | | |
| Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint. | | | |
| The chassis is to be fixed to the slab with 6mm x 50mm long masonry anchors at 500mm centers and including non-shrink grout | | | |
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External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centers through both panels. (See attached drawing 501- Roof/Wall Assembly Vertical Sections)

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc. (See attached drawing 500- corner detail- horizontal section)

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

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External door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

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Roof structure to be a minimum of 11 degree pitch with a overhang of 300mm on one side and 1500mm the other side over verandah.

The roof is to consist of all necessary lattice ridge beams fixed to gable walls with 4 x 10 x 60mm galvanised bolts, washers and nuts on each side. See attached drawing : (505 - Roof panels to lattice beam detail.)

The roof is to consist of all required beams, supports, etc fixed to columns (elsewhere) for the overhang sections at the entrances and verandah areas of the building

The roof covering composite panel to consist of 0.6mm galvanised pre painted IBR chromadek external surface, 50mm expanded polystyrene core and 0.5mm chromadek plain white sheet soffit.

External and internal 1.2mm galvanised ridge plates to be placed on the surfaces where the roof panels join including fixing to the panel with 4.8 x 18mm sealed rivets fixed at 400mm centres on both sides and fixed to ridge beam with 4 x 8 x 125mm posidrive screws per a panel.

Roof covering to include all ridge flashing, 1.2mm apex splines, closure flashing, powder coated eave cappings, drip flashing and narrow and broad flute closures with polybuttons to be formed from 0.58mm Chromadek including rivets, bolts and drywall screws, etc. (See attached drawing 500- corner detail- horizontal section & 501 Roof/ Wall Assembly Vertical Section)

10 x 75 x 225mm Upvc Bargeboard drilled and fixed to composite panel at verges with 75mm hex posidriver screws at 600mm centres including galvanised steel H-profile jointing strips, etc.

85 x 125mm Powder coated seamless aluminium gutter fixed to proprietary fascia at maximum 600mm centres with and including proprietary fixings.

Four x 75 x 100mm x 2700mm long Powder coated seamless aluminium downpipes fixed to composite panels with and including proprietary holder bat and accessories.

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5 CLASSROOM BLOCK

**TSHATSHATSHA PRIMARY SCHOOL
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Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.(See attached drawing 502- Internal Wall Base Detail)

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centres through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets,sealant, etc.

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Floor finishes to following areas :

1.Classroom 1 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

2.Classroom 2 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

3.Classroom 3 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

4.Classroom 4 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

5.Classroom 5 (59.5m2): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

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All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and air conditioner isolators. All lights, plugs, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

One double tube fluorescent light per 7m2 floor area.

SHOP DETAILS

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

- 1 The Contractor is to allow hereunder for any costs incurred for the preparation and/or approval of shop drawings for the "5 Classroom block "prefabricated building for the contract.

Item

Prefabricated Units

Note: The contractor it to take note of all the items above when pricing the prefabricated structure.

The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.

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5 CLASSROOM BLOCK

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| | | | | | |
|--|---|----|----|--|---|
| 1 | Supply, transport and erect of 5 Classroom block size 42740 x 8500mm consisting of the following : 1.Classroom 1 (59.5m2) 2.Classroom 2 (59.5m2) 3.Classroom 3 (59.5m2) 4.Classroom 4 (59.5m2) 5.Classroom 5 (59.5m2) 6.Enclosed Verandah (64.11m2) <u>JOINERY</u> <u>Bench seats</u> <u>Wrought hardwood</u> | No | 1 | | |
| 2 | 32 x 69mm Twice chamfered seating slat countersunk bolted to steel framing (elsewhere) with and including stainless steel round headed bolts and nuts. <u>Galvanised mild steel</u> | m | 36 | | |
| 3 | 40 x 40 x 3mm Square tubular, four times welded, bracket three times bolted to wall and floor with and including M10 x 100mm long masonry anchors. (Weight of each bracket = 4.60kg) <u>PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.</u> <u>Lockers</u> | No | 9 | | |
| 4 | Powder coated "Grey" steel standard two-door stationary cupboard, size 900mm wide x 450mm deep x 1800mm high, provided complete with four shelves, chromium plated locking mechanism, four times bolted to brickwork with and including 10 x 85mm long masonry anchors. <u>Writing boards</u> | No | 5 | | |
| 5 | Educational board with deluxe aluminium perimeter frame, size overall 4000 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, mounted to wall with and including proprietary wall fixings. | No | 5 | | |
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|---|---|----|-----|---|--|
| | <u>Pinning boards</u> | | | | |
| 1 | Standard wall mounted educational range pin board, size 2400 x 1200mm, with "(Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions. | No | 10 | | |
| | <u>SIGNAGE</u> | | | | |
| | <u>3mm Thick x 40mm high bevelled edge polished aluminium plate signs with 20mm high black engraved numerals or letters, countersunk tap screwed to timber door</u> | | | | |
| 2 | Sign with two numerals enscribed. | No | 5 | | |
| | <u>3mm Thick bevelled edge polished aluminium indicator plate signs with black engraved numerals or letters, countersunk tap screwed to wall.</u> | | | | |
| 3 | 150 x 150 x 3mm Black engraved bevelled edge aluminum fire extinguisher sign indicator plate fixed to wall. | No | 2 | | |
| | <u>SCREEDS</u> | | | | |
| | <u>3:1 Cement screeds :</u> | | | | |
| 4 | 30mm Thick screed to floors and landings. | m2 | 300 | | |
| | <u>FIRE SERVICES</u> | | | | |
| | <u>Portable fire extinguishers:</u> | | | | |
| 5 | 4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall. | No | 3 | | |
| | <u>PAINT ON TIMBER</u> | | | | |
| | <u>Prepare and apply three coats interior quality clear polyurethane varnish on :</u> | | | | |
| 6 | Surfaces of hardwood slatted shelving or bench seating. | m2 | 7 | | |
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| | <p><u>BILL No. 3</u></p> <p><u>3 CLASSROOM BLOCK</u></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><u>Construction Notes:</u></p> <p>All construction materials are to be SABS or AGREEMENT South Africa Certified'.</p> <p>Prefabricated systems are to be presented to the Principal Agent for approval before construction commences.</p> <p>Concrete strip footings and slab to be constructed by the main contractor.</p> <p>Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint.</p> <p>The chassis is to be fixed to the slab with 6mm x 50mm long masonry anchors at 500mm centres and including non-shrink grout</p> | | | |
| | <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.2 - PREFABRICATED BUILDINGS</p> <p>Bill No. 3</p> <p>3 CLASSROOM BLOCK</p> <p>TSHATSHATSHA PRIMARY SCHOOL</p> <p>PROVISIONAL BILL OF QUANTITIES</p> | | R | |

External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centers through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

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External door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

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3 CLASSROOM BLOCK

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Roof structure to be a minimum of 11 degree pitch with a overhang of 300mm on side and 1500mm the other side over verandah.

The roof is to consist of all necessary lattice ridge beams fixed to gable walls with 4 x 10 x 60mm galvanised bolts, washers and nuts on each side. See attached drawing : (505 - Roof panels to lattice beam detail.)

The roof is to consist of all required beams, supports, etc fixed to columns (elsewhere) for the overhang sections at the entrances and verandah areas of the building

The roof covering composite panel to consist of 0.6mm galvanised pre painted IBR chromadek external surface, 50mm expanded polystyrene core and 0.5mm chromadek plain white sheet soffit.

External and internal 1.2mm galvanised ridge plates to be placed on the surfaces where the roof panels join including fixing to the panel with 4.8 x 18mm sealed rivets fixed at 400mm centres on both sides and fixed to ridge beam with 4 x 8 x 125mm posidrive screws per a panel.

Roof covering to include all ridge flashing, 1.2mm apex splines, closure flashing, powder coated eave cappings, drip flashing and narrow and broad flute closures with polybuttons to be formed from 0.58mm Chromadek including rivets, bolts and drywall screws, etc.

10 x 75 x 225mm Upvc Bargeboard drilled and fixed to composite panel at verges with 75mm hex posidriver screws at 600mm centres including galvanised steel H-profile jointing strips, etc.

85 x 125mm Powder coated seamless aluminium gutter fixed to proprietary fascia at maximum 600mm centres with and including proprietary fixings.

Four x 75 x 100mm x 2700mm long Powder coated seamless aluminium downpipes fixed to composite panels with and including proprietary holderbat and accessories.

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3 CLASSROOM BLOCK

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R

Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.(See attached drawing 502- Internal Wall Base Detail)

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centers through both panels. (See attached drawing 506- Internal Wall - Head Detail Vertical Section)

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets,sealant, etc.

Carried to Collection

SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

**TSHATSHATSHA PRIMARY SCHOOL
PROVISIONAL BILL OF QUANTITIES**

R

Floor finishes to following areas :

1.Classroom 1 (59.5m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

2.Classroom 2 (59.5m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

3.Classroom 3 (59.5m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and air conditioner isolators. All lights, plugs, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

One double tube fluorescent light per 7m² floor area.

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SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

**TSHATSHATSHA PRIMARY SCHOOL
PROVISIONAL BILL OF QUANTITIES**

R

SHOP DETAILS

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

- 1 The Contractor is to allow hereunder for any costs incurred for the preparation and/or approval of shop drawings for the "Block C - 4 Classroom block "prefabricated building for the contract.

Item

Prefabricated Units

Note: The contractor it to take note of all the items above when pricing the prefabricated structure.

The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.

- 2 Supply, transport and erect of 3 Classroom block size 25800 x 8510mm consisting of the following :

1. Classroom 1 (59.5m²)
2. Classroom 2 (59.5m²)
3. Classroom 3 (59.5m²)
4. Enclosed Verandah (38.70m²)

No

1

Carried to Collection

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SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

TSHATSHATSHA PRIMARY SCHOOL**PROVISIONAL BILL OF QUANTITIES**

JOINERYBench seatsWrought hardwood

- | | | | |
|---|--|---|----|
| 1 | 32 x 69mm Twice chamfered seating slat countersunk bolted to steel framing (elsewhere) with and including stainless steel round headed bolts and nuts. | m | 36 |
|---|--|---|----|

Galvanised mild steel

- | | | | |
|---|--|----|---|
| 2 | 40 x 40 x 3mm Square tubular, four times welded, bracket three times bolted to wall and floor with and including M10 x 100mm long masonry anchors. (Weight of each bracket = 4.60kg) | No | 9 |
|---|--|----|---|

PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.Lockers

- | | | | |
|---|---|----|---|
| 3 | Powder coated "Grey" steel standard two-door stationary cupboard, size 900mm wide x 450mm deep x 1800mm high, provided complete with four shelves, chromium plated locking mechanism, four times bolted to brickwork with and including 10 x 85mm long masonry anchors. | No | 3 |
|---|---|----|---|

Writing boards

- | | | | |
|---|---|----|---|
| 4 | Educational board with deluxe aluminium perimeter frame, size overall 4000 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, mounted to wall with and including proprietary wall fixings. | No | 3 |
|---|---|----|---|

Pinning boards

- | | | | |
|---|---|----|---|
| 5 | Standard wall mounted educational range pin board, size 2400 x 1200mm, with "(Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions. | No | 6 |
|---|---|----|---|

Carried to Collection**R**

SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

TSHATSHATSHA PRIMARY SCHOOL**PROVISIONAL BILL OF QUANTITIES**

SIGNAGE

3mm Thick x 40mm high bevelled edge polished aluminium plate signs with 20mm high black engraved numerals or letters, countersunk tap screwed to timber door

| | | | |
|---|-----------------------------------|----|---|
| 1 | Sign with two numerals enscribed. | No | 3 |
|---|-----------------------------------|----|---|

3mm Thick bevelled edge polished aluminium indicator plate signs with black engraved numerals or letters, countersunk tap screwed to wall.

| | | | |
|---|---|----|---|
| 2 | 150 x 150 x 3mm Black engraved bevelled edge aluminum fire extinguisher sign indicator plate fixed to wall. | No | 2 |
|---|---|----|---|

SCREEDS

3:1 Cement screeds :

| | | | |
|---|---|----|-----|
| 3 | 30mm Thick screed to floors and landings. | m2 | 180 |
|---|---|----|-----|

FIRE SERVICES

Portable fire extinguishers:

| | | | |
|---|---|----|---|
| 4 | 4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall. | No | 2 |
|---|---|----|---|

PAINT ON TIMBER

Prepare and apply three coats interior quality clear polyurethane varnish on :

| | | | |
|---|---|----|---|
| 5 | Surfaces of hardwood slatted shelving or bench seating. | m2 | 7 |
|---|---|----|---|

Carried to Collection

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SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

TSHATSHATSHA PRIMARY SCHOOL

PROVISIONAL BILL OF QUANTITIES

Section No. 2

SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

COLLECTION

Total Brought Forward from Page No.

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No****Amount**

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SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 3

3 CLASSROOM BLOCK

**TSHATSHATSHA PRIMARY SCHOOL
PROVISIONAL BILL OF QUANTITIES**

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <u>BILL No.4</u> | | | |
| <u>COMBINED ADMIN AND NUTRITION CENTRE</u> | | | |
| <u>Note:</u> | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| <u>Construction Notes:</u> | | | |
| All construction materials are to be SABS or AGREEMENT South Africa Certified'. | | | |
| Prefabricated systems are to be presented to the Principal Agent for approval before construction commences. | | | |
| Concrete platforms and ground beams to be constructed by the main contractor. | | | |
| Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint. | | | |
| The chassis is to fixed to the slab with 8mm x 75mm long masonry anchors at 500mm centers and including non-shrink grout | | | |
| Carried to Collection | | | R |
| SECTION NO.2 - PREFABRICATED BUILDINGS | | | |
| Bill No. 4 | | | |
| COMBINED ADMIN & NUTRITION CENTRE | | | |
| TSHATSHATSHA PRIMARY SCHOOL | | | |
| PROVISIONAL BILL OF QUANTITIES | | | |

External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centres through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

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SECTION NO.2 - PREFABRICATED BUILDINGS

Bill No. 4

COMBINED ADMIN & NUTRITION CENTRE

TSHATSHATSHA PRIMARY SCHOOL

PROVISIONAL BILL OF QUANTITIES

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External door frames to be natural anodized aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

40mm Thick double external meranti glazed panel door, in two equal leaves with rebated meeting stiles, size overall 1612 x 2032mm high overall, each leaf comprising two unequal lights formed of 105mm wide vertical stiles, top rail, middle rail and double bottom rails framed together and including forming rebates for safety glass (elsewhere), both leaves fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres. 6.3mm mm thick clear laminated safety glass including gaskets each door to be fitted with the following ironmongery :

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COMBINED ADMIN & NUTRITION CENTRE

TSHATSHATSHA PRIMARY SCHOOL

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1. Six 100 x 44mm sinkless aluminium butt hinges
- 2."2209 - 78SS" Euro profile upright cylinder lock case
- 3." 2 x 18 SC" Satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout,
5. 2 x AL8052 - 200AS" 200 x 25mm anodised silver aluminium flush bolt with heel,
- 6." 8852SC" Satin chrome dust proof keep including forming mortice in screed.
- 7." 2900SS" Rebate conversion set for Euro profile lock.
8. "DC 477 FS EN size 2-4" CAM motion non hold open door closer.
9. 2 x Stainless steel buffered door stop.
10. Splayed and rebated weatherboard fixed to the bottom of the door

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

External double gates size 1540 x 2000mm high in two equal leaves to be formed of 32 x 32 x 2.5mm wall thickness mild steel perimeter framing all round with mitred and welded angles, 8 x 20mm flat horizontal bars and the gate filled vertically with 10mm diameter mild steel bars welded to top and bottom rails at maximum 100mm centres, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting each leaf with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, fixed to prefabricated walls.

All gates to be fitted with 51mm brass padlock with stainless steel shackle.

Gate to be finished with one coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint.

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 Bill No. 4
 COMBINED ADMIN & NUTRITION CENTRE
TSHATSHATSHA PRIMARY SCHOOL
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Roof structure to be a minimum of 11 degree pitch with a overhang of 300mm all round.

The roof is to consist of all necessary lattice ridge beams fixed to gable walls with 4 x 10 x 60mm galvanised bolts, washers and nuts on each side.

The roof is to consist of all required beams, supports, etc fixed to columns (elsewhere) for the overhang sections at the entrances of the building.

The roof covering composite panel to consist of 0.6mm galvanised pre painted IBR chromadek external surface, 50mm expanded polystyrene core and 0.5mm chromadek plain white sheet soffit.

External and internal 1.2mm galvanised ridge plates to be placed on the surfaces where the roof panels join including fixing to the panel with 4.8 x 18mm sealed rivets fixed at 400mm centres on both sides and fixed to ridge beam with 4 x 8 x 125mm posidrive screws per a panel.

Roof covering to include all ridge flashing, 1.2mm apex splines, closure flashing, powder coated eave cappings, drip flashing and narrow and broad flute closures with polybuttons to be formed from 0.58mm Chromadek including rivets, bolts and drywall screws, etc.

10 x 75 x 225mm Upvc Bargeboard drilled and fixed to composite panel at verges with 75mm hex posidriver screws at 600mm centres including galvanised steel H-profile jointing strips, etc.

85 x 125mm Powder coated seamless aluminium gutter fixed to proprietary fascia at maximum 600mm centres with and including proprietary fixings.

Four x 75 x 100mm x 2700mm long Powder coated seamless aluminium downpipes fixed to composite panels with and including proprietary holderbat and accessories.

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COMBINED ADMIN & NUTRITION CENTRE

TSHATSHATSHA PRIMARY SCHOOL

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Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Kitchen area top be fitted with Grade 1 white glazed ceramic tiles size 200 x 200mm sealed to prefabricated panels with 3mm wide joints and grouted in white grout with fungicidal solution additive on walls in splashbacks

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centres through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

Strong Room (04) walls to be fitted with 0.8mm galvanised steel sheeting fixed into the interior panels including section framing all round with mitred and welded angles and cross braces fixed to panels

Strong Room (04) ceiling to be fitted with hot dipped galvanised security mesh screen, formed of 50 x 50 x 5mm mild steel angle section framing all round with mitred and welded angles and cross braces, the screen covered with weaved screen ex steel mesh or similar approved fixed to the prefabricated walls.

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COMBINED ADMIN & NUTRITION CENTRE

TSHATSHATSHA PRIMARY SCHOOL

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Internal door frames to be natural anodized aluminium fitted with neoprene gaskets.

Single external doors to be 40mm Solid core flush door, size 936 x 2032mm high, with commercial grade veneer both sides and concealed edge strips, each door to be fitted with the following ironmongery :

1. Three 100 x 44mm sinkless aluminium butt hinges
 - 2." 2209 - 78SS" Euro profile upright cylinder lock case
 - 3." 2 x 18 SC" Satin chrome double cylinder lock mechanism
 4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout
 5. Perspex signs with painted numerals or letters, countersunk tap screwed to doors
 6. Black rubber door stop plugged to wall or floor.
- All lock sets are to be master keyed.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

Floor finishes to following areas :

1. Foyer (19m2) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

2. Administration (16m2) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

3. Principal Office (12m2) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

4. Strong Room (6m2) : 30mm Granolithic screed

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(elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

5. Stock room (6m²) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

6. Sick Room (4m²) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

7. Kitchen (20m²) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

8. Store Room (6m²) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

9. Dining (24m²) : 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

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COMBINED ADMIN & NUTRITION CENTRE

TSHATSHATSHA PRIMARY SCHOOL

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Internal plumbing fittings :

1. Sickbay & Kitchen : Hand basin installation

White glazed vitreous china Rectangular washhand basin, size 550 x 400mm, with two tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi concealed cast iron wall brackets with 10mm bolts including

32mm Chromium plated brass slotted basin waste outlet with plug, chain and chain stay.

40mm Chromium plated brass basin bottle trap.

Two 15mm Chromium plated pillar tap with "Star" handle including flexi hoses and ball ostop valves.

2. Kitchen : Sink

Grade 316 stainless steel Inset type sink and drainer unit, size 1200 x 500mm wide overall, with two bowls situated at one end and fitted into opening in worktop (elsewhere) including two 38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay and 38mm PVC Sink double trap.

15mm Chromium plated one hole sink mixer with aerated swanneck swivel outlet and flexible connection hoses. and ball-o-stop valves.

3. Geyser Installation :

150 Litre high pressure horizontal water heater mounted in roof space including all vacuum breakers, pressure reducing valves, drainage valves, drip trays and pipework required.

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Internal soil drainage reticulation to be uPVC pipes and fittings with solvent welded straight joints taken to outer wall of building.

Internal water reticulation to be Class 2 copper piping including all capillary fittings with soldered joints and completion fittings taken to the other wall of the building.

All exposed hot water piping and fittings to be fitted with preformed polyethylene foam lagging or similar approved insulation wrapped lagging.

All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and isolators. All lights, plugs, power skirting, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

SHOP DETAILS

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

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TSHATSHATSHA PRIMARY SCHOOL

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R

| | | | | | |
|--|---|----|------|--|---|
| 1 | <p>The Contractor is to allow hereunder for any costs incurred for the preparation and/or approval of shop drawings for the "Block A - Combined Administration and Nutrition Centre "prefabricated building for the contract.</p> <p><u>Prefabricated Units</u></p> <p>Note: The contractor it to take note of all the items above when pricing the prefabricated structure.</p> <p>The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.</p> | | Item | | |
| 2 | <p>Supply, transport and erect of administration, dining & nutrition centre combination size 19019 x 9000mm consisting of the following :</p> <p>1. Foyer (19m2) 2. Administration (16m2) 3. Principal Office (12m2) 4. Strong Room (6m2) 5. Stock room (6m2) 6. Sick Room (4m2) 7. Kitchen (20m2) 8. Store Room (6m2) 9. Dining (24m2) 10. Entrance 01 (5m2) 11. Entrance 02 (5m2)</p> <p><u>JOINERY</u></p> <p><u>Shelving</u></p> | No | 1 | | |
| 3 | <p>20mm Thick chipboard, faced both sides in hardwood veneer (Colour white) with and including 10mm thick hardwood edge strips to all exposed edges in sides, divisions and shelves.</p> <p><u>Key boards, cabinets, etc.</u></p> | m2 | 25 | | |
| 4 | <p>Powder coated (White) epoxy steel standard medicine cabinet, size 380mm wide x 610mm high, provided complete with mirror to door, shelves, etc. including building into brickwork.</p> | No | 1 | | |
| <p style="text-align: right;">Carried to Collection</p> <p>SECTION NO.2 - PREFABRICATED BUILDINGS Bill No. 4 COMBINED ADMIN & NUTRITION CENTRE TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES</p> | | | | | R |

| | | | | | |
|--|--|----|----|--|---|
| 1 | Powder coated epoxy steel key cabinet (60 key) provided complete with identification label above each key hook and mechanical combination lock plugged to brickwork. | No | 1 | | |
| | <u>Window openers</u> | | | | |
| 2 | 32mm Diameter polished hardwood longarm 1 200mm long fitted with polished brass pole hook, secured in one chromium plated spring clip screwed to and including small polished hardwood block plugged to wall and fitted on hardwood base size 88 x 88mm countersunk for rod plugged to floor, including quadrant planted on. | No | 3 | | |
| | <u>Fittings</u> | | | | |
| 3 | Reception counter, 3000mm long overall x 600mm wide, including top, doors, drawers, galvanised angle iron fixing brackets and "Gelmar" support posts all as per drawing no. 505E, Plan, Sections and Elevation. | No | 1 | | |
| 4 | Kitchen floor cupboard unit, 2959mm long x 622mm wide, including doors, divisions, shelves, forming holes in top for sanitary fittings, etc. all as per drawing no: 506A Plan, Sections and Elevations. | No | 1 | | |
| 5 | L-Shape kitchen floor cupboard unit, 4162mm long x 622mm wide, including doors, divisions, shelves, etc. all as per drawing no: 506A Plan, Sections and Elevations. | No | 1 | | |
| | <u>Bench seats</u> | | | | |
| | <u>Wrought hardwood</u> | | | | |
| 6 | 32 x 69mm Twice chamfered seating slat countersunk bolted to steel framing (elsewhere) with and including stainless steel round headed bolts and nuts. | m | 11 | | |
| | <u>Galvanised mild steel</u> | | | | |
| 7 | 40 x 40 x 3mm Square tubular, four times welded, bracket three times bolted to wall and floor with and including M10 x 100mm long masonry anchors. (Weight of each bracket = 4.60kg) | No | 3 | | |
| Carried to Collection | | | | | R |
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STEELWORK

All steelwork is to be hot dipped galvanised after fabrication.

Columns, beams and other members

Welded roller shutter door support framing in single lengths with flat section base, columns, beams top, bearer and connection plates, bolted to concrete

| | | | |
|---|---|----|-----|
| 1 | 75 x 75 x 4mm x 8.98kg/m Square hollow section in roller shutter door framing including bolts,nuts and washers. | kg | 113 |
| 2 | Flat plate bearer or base plates holed for bolts and/or welded. | kg | 25 |

Bolts to columns, beams etc.

| | | | |
|---|--|----|----|
| 3 | 16 x 100mm masonry anchors fixed to floor including non-shrink grout . | No | 16 |
|---|--|----|----|

METAL SHELVING

Approved standard epoxy powder coated finish "Colour - Light Cream" wall bands, shelving, brackets, etc.

| | | | |
|---|---|----|-----|
| 4 | 1830mm Long double slot wall band six times plugged to wall with and including 8 x 80mm long masonry anchors. | No | 34 |
| 5 | 300mm Wide shelf bracket slotted into wall band. (elsewhere) | No | 170 |
| 6 | 500mm Wide shelf bracket slotted into wall band. (elsewhere) | No | 34 |

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**PROPRIETARY KITCHEN CUPBOARDS, LOCKERS,
WRITING BOARDS, SEATS, ETC.**Pinning boards

| | | | |
|---|--|----|---|
| 1 | Standard wall mounted educational range pin board, size 2000 x 1200mm with "(Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions. | No | 2 |
|---|--|----|---|

SCREEDS3:1 Cement screeds :

| | | | |
|---|---|----|-----|
| 2 | 30mm Thick screed to floors and landings. | m2 | 135 |
|---|---|----|-----|

SIGNAGE

3mm Thick x 60mm high bevelled edge polished aluminium plate signs with 40mm high black engraved numerals or letters, countersunk tap screwed to timber door

| | | | |
|----|--|----|---|
| 3 | Sign with "STAFF ROOM" en scribed. | No | 1 |
| 4 | Sign with "RECEPTION" en scribed. | No | 1 |
| 5 | Sign with "STRONG ROOM" en scribed. | No | 1 |
| 6 | Sign with "PRINCIPAL" en scribed. | No | 1 |
| 7 | Sign with "SICKROOM" en scribed. | No | 1 |
| 8 | Sign with "ADMINISTRATION" en scribed. | No | 1 |
| 9 | Sign with "DINING ROOM" en scribed. | No | 2 |
| 10 | Sign with "KITCHEN" en scribed. | No | 1 |
| 11 | Sign with "STORE" en scribed. | No | 1 |

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[illegible]

METALWORKEpoxy powder coated finish roller shutter doors with hood fixed to steel beam

- | | | | |
|---|---|----|---|
| 1 | Chain operated slatted roller shutter door to suit clear opening size 914mm wide x 1270mm high fitted with proprietary guides, hood, aluminium bottom rail with rubber gasket, etc. and 2 No. sliding lock bolts including 50mm padlock with stainless steel shackle. | No | 1 |
| 2 | Chain operated slatted roller shutter door to suit clear opening size 1800mm wide x 900mm high fitted with proprietary guides, hood, aluminium bottom rail with rubber gasket, etc. and 2 No. sliding lock bolts including 50mm padlock with stainless steel shackle. | No | 1 |

FIRE SERVICESPortable fire extinguishers:

- | | | | |
|---|---|----|---|
| 3 | 4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall. | No | 2 |
|---|---|----|---|

PAINTWORKPAINT ON TIMBERPrepare and apply three coats interior quality clear polyurethane varnish on :

- | | | | |
|---|---|----|---|
| 4 | Surfaces of hardwood slatted shelving or bench seating. | m2 | 2 |
|---|---|----|---|

MECHANICAL INSTALLATION

- | | | | |
|---|--|------|-----------|
| 5 | Provide the Provisional Sum of R 10 000.00 (Ten Thousand Rand) for the supply, delivery and installation of fridge freezer combination unit. | Item | 10 000.00 |
| 6 | Add for profit on the above, if desired. | Item | |
| 7 | Allow for attendance upon the specialist installation subcontractor. | Item | |

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GAS INSTALLATION

| | | | |
|---|---|------|-----------|
| 1 | Provide the Provisional Sum of R 50 000.00 (Fifty Thousand Rand) for the supply, delivery and installation of gas piping reticulation complete including pipework, gas burner stoves, valves, bottles, cages, etc. to be undertaken by a specialist firm. | Item | 50 000.00 |
| 2 | Add for profit on the above, if desired. | Item | |
| 3 | Allow for attendance upon the specialist installation subcontractor. | Item | |

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TSHATSHATSHA PRIMARY SCHOOL**PROVISIONAL BILL OF QUANTITIES**

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <u>BILL No. 5</u> | | | |
| <u>GRADE R CLASSROOM BLOCK</u> | | | |
| <u>Note:</u> | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| <u>Construction Notes:</u> | | | |
| All construction materials are to be SABS or AGREEMENT South Africa Certified'. | | | |
| Prefabricated systems are to be presented to the Principal Agent for approval before construction commences. | | | |
| Concrete strip footings and slab to be constructed by the main contractor. | | | |
| Chassis construction must run the full length and full width of the unit and consist of structurally welded steel chassis with minimum of 2 x 200 x 75 x 20 x 3mm lip channel longitudinal main members running the length of the building at 1640mm centres, 75 x 50 x 20 x 2.5mm lipped channel cross members set at maximum of 600mm centres. Steps to be supplied where applicable. All structural steel is to be coated with one coat red oxide primer and two coats latex paint. | | | |
| The chassis is to be fixed to the slab with 6mm x 50mm long masonry anchors at 500mm centers and including non-shrink grout. | | | |
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External walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

External walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Top of external walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to external wall including pop rivets at 150mm centres and 90mm long roof screws at 450mm centers through both panels. (See attached drawing 501- Roof/Wall Assembly Vertical Sections) .

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

All windows to be powder coated aluminium including necessary ironmongery and burglar proofing to opening sections as per schedule.

Windows to be glazed with 6,38mm Thick normal strength clear laminated safety glass including gaskets.

Ablution windows to be fitted with obscure or frosted glazing.

The perimeter of the frame to the adjacent surface to be sealed with an approved polysulphide sealant.

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External door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 0.5mm 44mm Thick framed, ledged, braced and battened stable door, size 813 x 2032mm high, the top leaf comprising 44 x 108mm stiles, top and bottom rails, the bottom leaf comprising 44 x 108mm stiles and top rail and 22 x 215mm bottom rail, both leaves fitted with 22 x 75mm diagonal braces and 44 x 70mm splayed and rebated weatherboards countersunk brass screwed on at maximum 200mm centres and filled with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths,
each door to be fitted with the following :

1. Three 100 x 44mm sinkless aluminium butt hinges
2. 2209 - 78SS" Euro profile upright cylinder lock case
3. 2 x 18 SC satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout.
5. Splayed and rebated weatherboard fixed to the bottom of the door
6. Stainless steel buffered door stop.

40mm Thick double external meranti glazed panel door, in two equal leaves with rebated meeting stiles, size overall 1612 x 2032mm high overall, each leaf comprising two unequal lights formed of 105mm wide vertical stiles, top rail, middle rail and double bottom rails framed together and including forming rebates for safety glass (elsewhere), both leaves fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres. 6.3mm mm thick clear laminated safety glass including gaskets each door to be fitted with the following ironmongery :

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1. Six 100 x 44mm sinkless aluminium butt hinges
- 2."2209 - 78SS" Euro profile upright cylinder lock case
- 3." 2 x 18 SC" Satin chrome double cylinder lock mechanism
4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout,
5. 2 x AL8052 - 200AS" 200 x 25mm anodised silver aluminium flush bolt with heel,
- 6." 8852SC" Satin chrome dust proof keep including forming mortice in screed.
- 7." 2900SS" Rebate conversion set for Euro profile lock.
8. "DC 477 FS EN size 2-4" CAM motion non hold open door closer.
9. 2 x Stainless steel buffered door stop.
10. Splayed and rebated weatherboard fixed to the bottom of the door

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

All lock sets are to be master keyed.

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External double gates size 1540 x 2000mm high in two equal leafs to be formed of 32 x 32 x 2.5mm wall thickness mild steel perimeter framing all round with mitred and welded angles, 8 x 20mm flat horizontal bars and the gate filled vertically with 10mm diameter mild steel bars welded to top and bottom rails at maximum 100mm centres, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting each leaf with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, fixed to prefabricated walls.

External single gates size 1395 x 2000mm high, formed of 32 x 32 x 2.5mm wall thickness mild steel perimeter framing all round with mitred and welded angles, 8 x 20mm flat horizontal bars and the gate filled vertically with 10mm diameter mild steel bars welded to top and bottom rails at maximum 100mm centres, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting each leaf with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, fixed to prefabricated walls.

All gates to be fitted with 51mm brass padlock with stainless steel shackle.

Gate to be finished with one coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint

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Roof structure to be a minimum of 11 degree pitch with a overhang of 300mm on side and 1500mm the other side over verandah.

The roof is to consist of all necessary lattice ridge beams fixed to gable walls with 4 x 10 x 60mm galvanised bolts, washers and nuts on each side. See attached drawing : (505 - Roof panels to lattice beam detail.)

The roof is to consist of all required beams, supports, etc fixed to columns (elsewhere) for the overhang sections at the entrances of the building.

The roof covering composite panel to consist of 0.6mm galvanised pre painted IBR chromadek external surface, 50mm expanded polystyrene core and 0.5mm chromadek plain white sheet soffit.

External and internal 1.2mm galvanised ridge plates to be placed on the surfaces where the roof panels join including fixing to the panel with 4.8 x 18mm sealed rivets fixed at 400mm centres on both sides and fixed to ridge beam with 4 x 8 x 125mm posidrive screws per a panel.

Roof covering to include all ridge flashing, 1.2mm apex splines, closure flashing, powder coated eave cappings, drip flashing and narrow and broad flute closures with polybuttons to be formed from 0.58mm Chromadek including rivets, bolts and drywall screws, etc.

10 x 75 x 225mm Upvc Bargeboard drilled and fixed to composite panel at verges with 75mm hex posidriver screws at 600mm centres including galvanised steel H-profile jointing strips, etc.

85 x 125mm Powder coated seamless aluminium gutter fixed to proprietary fascia at maximum 600mm centres with and including proprietary fixings.

Four x 75 x 100mm x 2700mm long Powder coated seamless aluminium downpipes fixed to composite panels with and including proprietary holderbat and accessories.

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Internal walls to be constructed of 42mm Chromadeck composite laminated polyurethane core panel interlocking system with tongue and groove interlocking joints sealed with an approved silicon sealant including fixing panels mechanically to base rail as per manufactures specifications.

Internal walls to be finished both sides with 0.5mm pre-painted "Frost white" hot dipped galvanised steel rigidised Chromadek sheeting.

Bottom of internal walls to be fitted with a aluminium base channel with 4 x 9mm rivets at 300mm centres on both sides and fixed to the floor slab with 6 x 50mm masonry anchors at 500mm centres including non-shrink grout.

Top of internal walls to be fixed to the underside of the roof panel with natural anodised extruded aluminium side wallplate fixed to internal wall including pop rivets at 450mm centres and 5.2 x 90mm long roof screws at 1000mm centers through both panels.

All corner, edge and ridge capping, etc to be formed from 0.58mm Chromadek including rivets, sealant, etc.

Internal door frames to be powder coated aluminium fitted with neoprene gaskets.

Single external doors to be 40mm Solid core flush door, size 936 x 2032mm high, with commercial grade veneer both sides and concealed edge strips, each door to be fitted with the following ironmongery :

1. Three 100 x 44mm sinkless aluminium butt hinges
 - 2." 2209 - 78SS" Euro profile upright cylinder lock case
 - 3." 2 x 18 SC" Satin chrome double cylinder lock mechanism
 4. Heavy duty satin chrome lever handle on 165 x 50 x 8mm cast backplate with cylinder lockset cutout
 5. Perspex signs with painted numerals or letters, countersunk tap screwed to doors
 6. Black rubber door stop plugged to wall or floor.
- All lock sets are to be master keyed.

All doors to be finished with apply, one coat pre treatment one coat pink wood primer, one undercoat and two coats water based eggshell enamel.

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Internal plumbing fittings :

1. Sickbay & Classroom : Hand basin installation

White glazed vitreous china Rectangular washhand basin, size 550 x 400mm, with two tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi concealed cast iron wall brackets with 10mm bolts including

32mm Chromium plated brass slotted basin waste outlet with plug, chain and chain stay.

40mm Chromium plated brass basin bottle trap.

Two 15mm Chromium plated pillar tap with "Star" handle including flexi hoses and ball-o-stop valves.

2. Kitchen : Sink

Grade 316 stainless steel Inset type sink and drainer unit, size 1200 x 500mm wide overall, with two bowls situated at one end and fitted into opening in worktop (elsewhere) including two 38mm Chromium plated brass slotted sink waste outlet with plug, chain and chain stay and 38mm PVC Sink double trap.

15mm Chromium plated one hole sink mixer with aerated swanneck swivel outlet and flexible connection hoses. and ball-o-stop valves.

3. Geyser Installation :

150 Litre high-pressure horizontal water heater mounted in roof space including all vacuum breakers, pressure reducing valves, drainage valves, drip trays and pipework required.

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Floor finishes to following areas :

1.Classroom 1 (50.77m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

2.Teachers Area 01a (10.57m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

3.Sick Bay 01b (8.73m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

4.Kitchen / Store 01c (8.73m²): 300 x 300 x 2,5mm Semi-flexible reinforced vinyl quartz floor tiles (screed elsewhere) with 23 x 73mm varnished meranti half round skirting plugged to perimeter of wall with 4.8mm counter sunk pop rivets at 400mm centres including sealing top and bottom of skirting with an approved anti-fungicidal silicone sealant.

All units to be wired to connect to 220volt single phase (connection and supply elsewhere). The electrical installation to be in accordance with SABS 0142-1993 and each unit fitted with a wiring kit consisting of a distribution board, earth leakage , lights , switches, socket outlets and air conditioner isolators. All lights, plugs, geysers, interior and exterior electrical fittings to be insulated in accordance with SABS 0142-1993. Electrical compliance certificate to be issued with each unit.

One double tube fluorescent light per 7m² floor area.

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SHOP DETAILS

The Contractor shall prepare his own shop details. Immediately on receipt of the Architect's drawings, the Contractor shall satisfy himself that the design drawings contain all the information required for the preparation of the shop details. The said shop details and other drawings shall be submitted in duplicate to the Architect for approval at least 1 week before commencement of fabrication. The Contractor's drawings shall be complete in every respect and shall be checked by the Contractor prior to submission. One copy of each drawing will be retained by the Architect and, within 1 week after the date of receipt by the Architect, the other copy will be returned to the Contractor with the Architect comments or written approval, as the case may be. Before the commencement of fabrication, the Contractor shall obtain from the Architect approval of the shop drawings, in writing. The approval given by the Architect relates to structural adequacy and does not absolve the Contractor from the responsibility for dimensional accuracy.

- 1 The Contractor is to allow hereunder for any costs incurred for the preparation and/or approval of shop drawings for the "Grade R classroom block "prefabricated building" for the contract.

Item

Prefabricated Units

Note: The contractor it to take note of all the items above when pricing the prefabricated structure.

The contractor will be liable for the completion of any item that is not supplied by the prefabrication sub contractor.

- 2 Supply, transport and erect of Grade R Classroom block size 10040 x 9550mm consisting of the following :

- 1.Classroom 1 (50.77m2)
- 2.Teachers Area 01a (10.57m2)
- 3.Sick Bay 01b (8.73m2)
- 4.Kitchen / Store 01c (8.73m2)

No

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JOINERYShelving

- 1 16mm Thick laminated wrot SA pine in sides, divisions and shelves.

m2

12

Window openers

- 2 32mm Diameter polished hardwood longarm 1 200m long fitted with polished brass pole hook, secured in one chromium plated spring clip screwed to and including small polished hardwood block plugged to wall and fitted on hardwood base size 88 x 88mm countersunk for rod plugged to floor, including quadrant planted on.

No

1

Fittings

- 3 U- shape Kitchen floor cupboard unit, 7451mm long x 686mm wide, including doors, divisions, shelves, forming hole in top for sanitary fitting, etc. all as per drawing no.506A

No

1

- 4 Pigeon hole bag shelf unit, 2824mm long x 600mm wide, including top, shelves, divisions, etc. all as per drawing 505I

No

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METAL SHELVING

Approved standard epoxy powder coated finish "Colour - Light Cream" wall bands, shelving, brackets, etc.

- | | | | |
|---|--|----|----|
| 1 | 915mm Long double slot wall band three times plugged to wall with and including 8 x 80mm long masonry anchors. | No | 9 |
| 2 | 533mm Wide shelf bracket slotted into wall band. (elsewhere) | No | 27 |

PROPRIETARY KITCHEN CUPBOARDS, LOCKERS, WRITING BOARDS, SEATS, ETC.Writing boards

- | | | | |
|---|---|----|---|
| 3 | Educational board with deluxe aluminium perimeter frame, size overall 2930 x 1230mm high, with magnetic chalkboard centre panel fitted with aluminium chalkrail, mounted to wall with and including proprietary wall fixings. | No | 1 |
|---|---|----|---|

Pinning boards

- | | | | |
|---|--|----|---|
| 4 | Standard wall mounted educational range pin board, size 1500 x 1200mm with "Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions. | No | 1 |
| 5 | Standard wall mounted educational range pin board, size 2400 x 1200mm, with "Colour - Grey" colour rib pinning surface, the board fixed to walls with proprietary mountings in strict accordance with the Manufacturer's instructions. | No | 1 |

SIGNAGE

8mm Thick x 80mm high clear varnished high density fibre board "Arial Narrow" lettering with routed edges and three stainless steel countersunk tap screwed to timber door

- | | | | |
|---|-----------------------------------|----|---|
| 6 | Sign with two numerals enscribed. | No | 1 |
|---|-----------------------------------|----|---|

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| | | | | | |
|--|---|----|----|--|---|
| | <u>3mm Thick x 40mm high bevelled edge polished aluminium plate signs with 20mm high black engraved numerals or letters, countersunk tap screwed to timber door</u> | | | | |
| 1 | Sign with two numerals enscribed. | No | 1 | | |
| 2 | Sign with "KITCHEN" enscribed. | No | 1 | | |
| 3 | Sign with "STORE" enscribed. | No | 1 | | |
| 4 | Sign with "WORK ROOM" enscribed. | No | 1 | | |
| | <u>3mm Thick x 220mm high bevelled edge polished aluminium plate signs with 200mm high black engraved numerals or letters, countersunk tap screwed to timber door</u> | | | | |
| 5 | Sign with "GRADE R CLASSROOM" enscribed. | No | 1 | | |
| | <u>3mm Thick bevelled edge polished aluminium indicator plate signs with black engraved numerals or letters, countersunk tap screwed to wall.</u> | | | | |
| 6 | 150 x 150 x 3mm Black engraved bevelled edge aluminum fire extinguisher sign indicator plate fixed to wall. | No | 1 | | |
| | <u>SCREEDS</u> | | | | |
| | <u>3:1 Cement screeds :</u> | | | | |
| 7 | 30mm Thick screed to floors and landings. | m2 | 79 | | |
| | <u>FIRE SERVICES</u> | | | | |
| | <u>Portable fire extinguishers:</u> | | | | |
| 8 | 4.5 Kg carbondioxide portable fire extinguisher complete with full load, wall hook and bracket, bracket fixed to and including 25 mm wrot Meranti backboard, size 100 x 520mm high with chamfered edges, varnished and fixed to wall. | No | 1 | | |
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PAINT ON TIMBER

Prepare and apply three coats interior quality clear polyurethane varnish on :

| | | | |
|---|--------------------------------------|----|----|
| 1 | Surfaces of laminated pine shelving. | m2 | 24 |
|---|--------------------------------------|----|----|

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GRADE R CLASSROOMS

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PROVISIONAL BILL OF QUANTITIES**

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| | | | | | |
|---------------------------------------|---|----|-----|--|---|
| 1 | Demolish and cart away single storey office block, size on plan 11000mm long x 9000mm wide x approximately 3000mm high, comprised of sheet metal and fibre-cement roof covering on double pitch timber rafters, plastered and painted brick internal and external walls with timber doors, ground floor concrete surface bed with granolithic floor covering, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site. | No | 1 | | |
| 2 | Demolish and cart away mud structure rondavel complete, size 50m2 on plan x 3m high, including concrete surface bed, walls, and roof structure. | No | 1 | | |
| | <u>Tank stands</u> | | | | |
| 3 | Demolish and cart away 5000 litre water storage tank including brick tank stand, comprised of plastered and painted brick walls and reinforced concrete slab including grubbing up foundations and backfilling holes with material from the stockpiles on site. | No | 5 | | |
| | <u>Fencing</u> | | | | |
| 4 | Take down and cart away stock fencing, 1800mm high, including excavating out timber intermediate, corner or straining posts, at approximately 3000mm centres, backfilling of holes, etc. | m | 650 | | |
| | <u>Site clearance</u> | | | | |
| 5 | Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site. | m2 | 919 | | |
| 6 | Strip topsoil, average 150mm thick, including depositing in stockpiles on site for later re-use. | m2 | 919 | | |
| | <u>EXCAVATIONS, FILLING, ETC.</u> | | | | |
| | <u>OPEN FACE EXCAVATIONS</u> | | | | |
| 7 | Open face excavation in earth in cutting and levelling of site. | m3 | 276 | | |
| Carried to Collection | | | | | R |
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| Bill No. 1 | | | | | |
| BULK EARTHWORKS | | | | | |
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Section No. 3

SECTION NO.3 - EXTERNAL WORKS

Bill No. 1

BULK EARTHWORKS

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SECTION NO.3 - EXTERNAL WORKS

Bill No. 1

BULK EARTHWORKS

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PROVISIONAL BILL OF QUANTITIES**

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| | | | |
|---|---|----|------|
| <u>Soakage pits, french drains, etc. (Labour intensive)</u> | | | |
| <u>Excavations</u> | | | |
| <u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u> | | | |
| 1 | Surface trenches. | m3 | 18 |
| <u>Excavations in earth of more difficult character</u> | | | |
| 2 | Extra over excavations in earth for excavation in soft rock. | m3 | 2 |
| 3 | Extra over excavations in earth for excavation in hard rock. | m3 | 2 |
| <u>Carting away of excavated material</u> | | | |
| 4 | Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. | m3 | 12 |
| <u>Risk of collapse of excavations</u> | | | |
| 5 | Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. | m2 | 42 |
| <u>Keeping excavations free of water</u> | | | |
| 6 | Allow for keeping the excavations free from water. | | Item |
| <u>Filling</u> | | | |
| 7 | Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density. | m3 | 6 |
| 8 | 19mm Uniformly graded and washed concrete stone laid loose on filter fabric (elsewhere). | m3 | 12 |
| <u>Filter fabric</u> | | | |
| 9 | Grade 3 needle punched non-woven synthetic fibre filter fabric laid in bottom of chamber. | m2 | 66 |
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| SOIL DRAINAGE (PROVISIONAL) | | | |
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|---|---|----|------|---|--|
| | <u>Pipes, pipe fittings, etc.</u> | | | | |
| | <u>UTL420 PVC Perforated slotted heavy duty pipe</u> | | | | |
| 1 | 110mm Diameter pipe laid in trench (elsewhere). | m | 12 | | |
| | <u>THE FOLLOWING IN SEPTIC TANKS (Labour intensive)</u> | | | | |
| | <u>Excavations</u> | | | | |
| | <u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u> | | | | |
| 2 | Holes. | m3 | 46 | | |
| | <u>Excavations in earth of more difficult character</u> | | | | |
| 3 | Extra over excavations in earth for excavation in soft rock. | m3 | 4 | | |
| 4 | Extra over excavations in earth for excavation in hard rock. | m3 | 2 | | |
| | <u>Carting away of excavated material</u> | | | | |
| 5 | Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. | m3 | 32 | | |
| | <u>Risk of collapse of excavations</u> | | | | |
| 6 | Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc. | m2 | 60 | | |
| | <u>Keeping excavations free of water</u> | | | | |
| 7 | Allow for keeping the excavations free from water. | | Item | | |
| | <u>Filling</u> | | | | |
| 8 | Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. | m3 | 4 | | |
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|---------------------------------------|---|----|----|--|---|
| | <u>Weedkillers, insecticides, etc.</u> | | | | |
| | <u>Soil insecticide in accordance with SANS 5859</u> | | | | |
| 1 | To bottoms and sides of trenches. | m2 | 48 | | |
| | <u>CONCRETE (Labour intensive)</u> | | | | |
| | <u>Reinforced concrete 30MPa (19mm stone) in:</u> | | | | |
| 2 | Slabs including beams and inverted beams. | m3 | 6 | | |
| | <u>Surface treatment</u> | | | | |
| 3 | Float surface of concrete to a wood float finish. | m2 | 20 | | |
| | <u>Test blocks and testing</u> | | | | |
| 4 | Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional) | No | 2 | | |
| | <u>FORMWORK (Labour intensive)</u> | | | | |
| | <u>Rough formwork (use and waste) to concrete to:</u> | | | | |
| | <u>Formwork to slabs, beams and stairs</u> | | | | |
| 5 | Soffits of slabs exceeding 1.5 not exceeding 3.5m above bearing level. | m2 | 18 | | |
| | <u>Edges, risers, ends and reveals</u> | | | | |
| 6 | Edge, riser, etc not exceeding 300mm high. | m | 16 | | |
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REINFORCEMENT (PROVISIONAL)High tensile welded steel mesh reinforcement :

| | | | |
|---|---------------------------------------|----|----|
| 1 | Ref: 395 cast into concrete surfaces. | m2 | 38 |
|---|---------------------------------------|----|----|

Inspection chambers, catch pits, etc.Cast iron covers and frames

| | | | |
|---|---|----|---|
| 2 | 450 x 600mm x 72kg Type 8A coated cast iron double seal manhole cover and frame, including bedding and grouting frame on concrete, locking bar and padlock. | No | 2 |
|---|---|----|---|

Black PVC duct pipe in single lengths :

| | | | |
|---|---------------------------|---|---|
| 3 | 150mm Diameter vent pipe. | m | 1 |
|---|---------------------------|---|---|

Extra over PVC duct pipe for fittings :

| | | | |
|---|-------------------|----|---|
| 4 | 150mm Plain bend. | No | 2 |
|---|-------------------|----|---|

Septic tanks:

| | | | |
|---|---|----|---|
| 5 | 6000 Litre polyethylene rotomoulded horizontal septic waste storage tank provided complete with lid, overflow outlet fitted with suitable adaptor, inlet fitted with suitable adapter and setting in position underground (elsewhere measured). | No | 2 |
|---|---|----|---|

| | | | |
|---|---|----|---|
| 6 | Hole through top of tank lid for 150mm diameter pipe. | No | 2 |
|---|---|----|---|

Testing

| | | | |
|---|---|--|------|
| 7 | Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations. | | Item |
|---|---|--|------|

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SOIL DRAINAGE (PROVISIONAL)

TSHATSHATSHA PRIMARY SCHOOL**PROVISIONAL BILL OF QUANTITIES**

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| | BILL No. 3 | | | |
| | <u>STORMWATER DRAINAGE (PROVISIONAL)</u> | | | |
| | <u>Note:</u> | | | |
| | For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| | <u>RAINWATER TANKS AND TANKSTANDS (ALL TRADES)</u> | | | |
| | <u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u> | | | |
| 1 | Surface trenches. | m3 | 72 | |
| 2 | Reduced levels under solid floors. | m3 | 5 | |
| | <u>Carting away of excavated material</u> | | | |
| 3 | Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. | m3 | 37 | |
| | <u>Risk of collapse of excavations</u> | | | |
| 4 | Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. | m2 | 211 | |
| | <u>Keeping excavations free of water</u> | | | |
| 5 | Allow for keeping the excavations free from water. | | Item | |
| | <u>Filling, layerworks, etc.</u> | | | |
| 6 | Earth filling from the excavations and/or stockpiles in backfilling to trenches, underfloors, column bases, etc., compacted to 95% Mod AASHTO dry density. | m3 | 21 | |
| | | | | |
| | | | | |
| | Carried to Collection | | | |
| | SECTION NO.3 - EXTERNAL WORKS | | | |
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|---------------------------------------|---|----|-------|---|--|
| 1 | Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. | m3 | 21 | | |
| | <u>Compaction of surfaces</u> | | | | |
| 2 | Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density. | m2 | 37 | | |
| | <u>Tests</u> | | | | |
| 3 | Allow for Mod AASHTO density tests on filling. | No | 12.00 | | |
| | <u>Reinforced concrete 25MPa in:</u> | | | | |
| 4 | Strip foundations cast against excavated surfaces. | m3 | 5 | | |
| 5 | Surface beds cast in panels including temporary formwork. | m3 | 6 | | |
| | <u>Sundries</u> | | | | |
| 6 | Float surface of concrete to a wood float finish. | m2 | 84 | | |
| | <u>Rough formwork (use and waste) to concrete to:</u> | | | | |
| 7 | Edge, riser, etc not exceeding 300mm high. | m | 108 | | |
| | <u>High tensile welded steel mesh reinforcement :</u> | | | | |
| 8 | Ref: 193 cast into concrete surfaces. | m2 | 84 | | |
| | <u>Brickwork in stock bricks in 5:1 cement mortar :</u> | | | | |
| 9 | One brick wall. | m2 | 108 | | |
| 10 | One brick wall in foundations. (Provisional) | m2 | 84 | | |
| | <u>Brickwork sundries :</u> | | | | |
| 11 | Galvanised brick reinforcement 150mm wide built horizontally into brickwork. | m | 166 | | |
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|---------------------------------------|--|----|-----|--|---|
| | <u>Ties, cramps, etc.</u> | | | | |
| 1 | 38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut. | No | 12 | | |
| 2 | 38 x 1,6mm Galvanised hoop iron tie down, 1200mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor. | No | 48 | | |
| | <u>250 Micron "Gunplas USB" green polyethylene sheeting</u> : | | | | |
| 3 | Laid flat under solid floor and over walls. | m2 | 84 | | |
| | <u>One coat external 1:5 cement plaster on :</u> | | | | |
| 4 | Brick wall. | m2 | 111 | | |
| | <u>Rainwater tanks:</u> | | | | |
| 5 | 5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid, overflow outlet and "ASIDI" emblem, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection) | No | 12 | | |
| 6 | Hole through top of tank lid for 100mm diameter pipe. | No | 12 | | |
| | <u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u> | | | | |
| 7 | External smooth plastered walls. | m2 | 111 | | |
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| <u>BILL No. 4</u> | | | | |
| <u>WATER SUPPLY</u> | | | | |
| <u>Note:</u> | | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | | |
| <u>ALTERATIONS TO EXISTING</u> | | | | |
| 1 | Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere). | No | 1 | |
| 2 | Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of Tee Junction (elsewhere). | No | 1 | |
| <u>PIPEWORK, ETC.</u> | | | | |
| <u>Pipes, pipe fittings, etc.</u> | | | | |
| <u>Class 12 HDPE pressure water supply pipe including short lengths and cutting and Class C bedding cradle</u> | | | | |
| 3 | 25mm Pipe and laying in ground not exceeding 1000mm deep. | m | 40 | |
| 4 | 40mm Pipe and laying in ground not exceeding 1000mm deep. | m | 80 | |
| <u>Extra over HDPE pipes for the following fittings</u> | | | | |
| 5 | 25mm Fittings. | No | 10 | |
| 6 | 40mm Bend. | No | 5 | |
| 7 | 40mm Tee. | No | 3 | |
| 8 | 40 x 40 x 25mm Reducing tee. | No | 5 | |
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WATER SUPPLIES

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WATER SUPPLIES

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| Item No | Quantity | Rate | Amount |
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| <u>BILL No. 5</u> | | | |
| <u>ROADWORK, PAVED AREAS, ETC.</u> | | | |
| <u>Note:</u> | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| <u>THE FOLLOWING IN WALKWAYS , APRONS, RAMPS, STAIRS, ETC.</u> | | | |
| <u>EARTHWORKS</u> | | | |
| <u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u> | | | |
| 1 | Reduced levels between buildings. | m3 | 30 |
| <u>Carting away of excavated material</u> | | | |
| 2 | Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. | m3 | 30 |
| <u>Risk of collapse of excavations</u> | | | |
| 3 | Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. | m2 | 63 |
| <u>Keeping excavations free of water</u> | | | |
| 4 | Allow for keeping the excavations free from water. | Item | |
| <u>Filling</u> | | | |
| 5 | 150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs. | m3 | 27 |
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|---------------------------------------|---|----|-----|---|--|
| | <u>Sundries</u> | | | | |
| 1 | Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density. | m2 | 180 | | |
| | <u>Prescribed Testing</u> | | | | |
| 2 | Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed. | No | 10 | | |
| | <u>CONCRETE (Labour intensive)</u> | | | | |
| | <u>Reinforced concrete 25MPa (19mm stone) in:</u> | | | | |
| 3 | Paving in panels including any necessary formwork. | m3 | 21 | | |
| | <u>Surface treatment</u> | | | | |
| 4 | Float surface of concrete to a smooth steel trowelled finish. | m2 | 180 | | |
| | <u>Test blocks and testing</u> | | | | |
| 5 | Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional) | No | 10 | | |
| | <u>Movement joints</u> | | | | |
| 6 | 10mm Thick "Jointex" closed cell polyethylene joint filler with hinged blocking piece between concrete surfaces not exceeding 300mm wide. | m | 429 | | |
| 7 | Remove hinged blocking piece and fill 10 x 15mm cavity with an approved 2 part polysulphide sealer. | m | 435 | | |
| | <u>FORMWORK</u> | | | | |
| | <u>Edges, risers, ends and reveals</u> | | | | |
| 8 | Edge, riser, etc not exceeding 300mm high. | m | 327 | | |
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REINFORCEMENTReinforcement

| | | | | | |
|---|--|----|-----|--|--|
| 1 | Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces. | m2 | 187 | | |
|---|--|----|-----|--|--|

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| <u>SECTION NO.4 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u> | | | | |
| <u>BILL NO.1</u> | | | | |
| <u>Note:</u> | | | | |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | | |
| <u>PROVISIONAL SUM</u> | | | | |
| <u>ELECTRICAL INSTALLATION</u> | | | | |
| 1 | Provided the Provisional sum of R 200 000.00 (Two Hundred Thousand Rand) for the installation of new electrical services and refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect. | Item | | 200 000.00 |
| 2 | Add for profit on the above, if desired. | Item | | |
| 3 | Allow for attendance on the above, if desired. | Item | | |
| <u>COMMUNITY LIAISON OFFICER (CLO)</u> | | | | |
| 4 | Provide the sum of R 45 000.00 (Forty Five Thousand Hundred Rand) for the employment of a CLO.(R 7 500.00 per month x contract period allowance) | Item | | 45 000.00 |
| 5 | Add for profit on the above if required. | Item | | |
| Carried to Collection | | | | R |
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PERIMETER FENCING

| | | | |
|---|--|------|--------------|
| 1 | Provisional sum of R 1 300 000.00 (One Million Four Hundred Thousand Rand) for the supply and installation of the perimeter fencing to the site as per architects specifications by specialist contractor. | Item | 1 300 000.00 |
| 2 | Add for profit on the above. | Item | |
| 3 | Allow for attendance upon the specialist installation subcontractor. | Item | |

BUDGETARY ALLOWANCESIGNAGE

| | | | |
|---|--|------|----------|
| 4 | Allow the Budgetary Allowance of R 5 000.00 (Five Thousand Rand) for the replacing of the main building signage. | Item | 5 000.00 |
|---|--|------|----------|

EXISTING ABLUTIONS

| | | | |
|---|---|------|-----------|
| 5 | Allow the Budgetary Allowance of R 50 000.00 (Fifty Thousand Rand) for the repairs and renovations of the existing VIP toilets. | Item | 50 000.00 |
|---|---|------|-----------|

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| 1 | SECTION NO.1 - PRELIMINARIES AND GENERAL | 43 | |
| 2 | SECTION NO.2 - PREFABRICATED BUILDINGS | 102 | |
| 3 | SECTION NO.3 - EXTERNAL WORKS | 124 | |
| 4 | SECTION NO.4- PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ECT. | 127 | |
| | Sub-Total | | R |
| | <u>CONTINGENCY PROVISIONS</u> | | |
| | Allow the Budgetary Provision of R 200 000.00 (Two Hundred Thousand Rand) for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum. | Item | 200 000.00 |
| | Sub - Total | | R |
| | Add Value - Added Tax at the rate applicable as at Tender closing date. | | R |
| | Sub - Total | | R |
| | Carried to Form of Tender | | R |
| | TSHATSHATSHA PRIMARY SCHOOL PROVISIONAL BILL OF QUANTITIES | | |