Item No		Quantity	Amount

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NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Meaning of terms "Tender" and "Tenderer"

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

Preliminaries and agreement

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 "NOT APPLICABLE"

Pricing of preliminaries

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories with the applicable amount entered against each relevant category, where "Fixed" denotes a fixed amount (amount not to be varied), "Value Related" denotes an amount variable in proportion to value and "Time Related" denotes an amount in proportion to time

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

General

i) Tenderers are referred to the above-mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary

ii) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading

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SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

Definitions (A1):

1 Definitions and interpretation (clause 1)

Clauses 1.1 is amended by adding the following definitions:

- Definition of "**commencement date**" is added:

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

- 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 **employers** construction guarantee form as selected in the **schedule**

- 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**

- 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

- Definition of "**fraudulent practice**" is added:

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

- Definition of "**interest**" is amended by replacing it with the following:

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

- 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**

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- Definition of "**security**" is amended by replacing it with the following:

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

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

Clause 1.6.4 is amended by replacing it with the following:

- No clause

Fixed	Item
Value Related	Item
Time Related	Item

Objective (A2):

2 Offer, acceptance and performance (clause 2)

Fixed	Item
Value Related	Item
Time Related	Item

Preparation (A3-A14):

3 Documents (clause 3)

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	Item
Value Related	Item
Time Related	Item

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4	Design responsibility (clause 4)		
	Clause 4.3 is amended by replacing it with the following:		
	- No clause		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
5	Employer's agents (clause 5)		
	Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
6	Site representative (clause 6)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
7	Compliance with regulations (clause 7)		
	Note: The provisions herein include *inter alia*, compliance with **all** the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor		
	Also see clause C11 of Section C, Specific Preliminaries, in this regard		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
8	Works risk (clause 8)		
	Fixed	Item	
	Value Related	Item	
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	Time Related	Item	
9	Indemnities (clause 9)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
10	Works insurance (clause 10)		

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

10.5 Damage to the works:

(a) Without in any way limiting the **contractors** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary

(b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**

(c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6

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

10.6 Injury to persons or loss of or damage to properties:

(a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

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

(c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent,** cause the same to be made good in a perfect and workmanlike manner at his

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own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

(d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

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

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

10.7 High risk insurance:

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

10.7.1 Damage to the works:

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

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

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

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mentioned above, which occurred during the period of the contract

10.7.3 Insurance to cover risk and liability:

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

10.7.4 Employer shall be entitled to recover losses and/or damages:

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

	Fixed	Item
	Value Related	Item
	Time Related	Item
11	Liability insurances (clause 11)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
12	Effecting insurance (clause 12)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
13	No Clause (clause 13)	
	Fixed	Item
	Value Related	Item
	Time Related	Item
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14 Security (clause 14)

Clauses 14.1 to 14.9 are amended by replacing them with the following:

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

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

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

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

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

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

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

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

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

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

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall

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be entitled to cede the rights to the deposit to any third party

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

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

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the variable **construction guarantee** form

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Fixed	Item
Value Related	Item
Time Related	Item

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Execution (A15-A23):

15 Preparation for and execution of the works (clause 15)

Clause 15.1.1 is amended by replacing it with:

15.1.1 No clause

Clause 15.1.2 is amended by replacing it with:

15.1.2 The **security** selected in terms of 14.0

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

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

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

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

Fixed	Item
Value Related	Item
Time Related	Item

16 Access to the works (clause 16)

Fixed	Item
Value Related	Item
Time Related	Item

17 Contract instructions (clause 17)

Clause 17.1.11 is amended by deleting the words "and the appointment of **nominated** and **selected sub-contractors**" and replacing it with the following words:

- "and the appointment of **selected sub-contractors**"

Fixed	Item
Value Related	Item
Time Related	Item

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18	Setting out of the works (clause 18)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
19	Assignment (clause 19)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
20	Nominated sub-contractors (clause 20)		
	Clause 20.1.3 is amended by replacing it with the following:		
	20.1.3 No clause		
	Note: See clause B9.1 hereinafter for adjustment of attendance on **nominated sub-contractors** executing work allowed for under provisional sums		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
21	Selected sub-contractors (clause 21)		
	Note: See clause B9.1 hereinafter for adjustment of attendance on **selected sub-contractors** executing work allowed for under provisional sums		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
22	Employer's direct contractors (clause 22)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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23	Contractor's domestic sub-contractors (Clause 23)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Completion (A24-A30):		
24	Practical completion (clause 24)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
25	Works completion (clause 25)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
26	Final completion (clause 26)		
	Clause 26.1.2 is amended by inserting "#" next to 26.1.2		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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27	Latent defects liability period (clause 27)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
28	Sectional completion (clause 28)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
29	Revision of date of practical completion (clause 29)		
	Clause 29.2.5 is amended by replacing it with:		
	- No clause		
	Clause 29.4.3 is amended by replacing "fifteen (15)" with "ten (10)"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
30	Penalty for non-completion (clause 30)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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Payment (A31 - A35):

31 Interim payment to the contractor (clause 31)

Clause 31.5.2 is amended by replacing 14.7.1 with 14.0

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

Alternative A:

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

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

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

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

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

Alternative B:

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

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

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

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

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

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	Clause 31.12 is amended by deleting the following sentence:		
	- "Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
32	Adjustment to the contract value (clause 32)		
	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:		
	- "due to no fault of the **contractor**"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
33	Recovery of expense and loss (clause 33)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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34	Final account and final payment (clause 34)		
	Clause 34.1 is amended by removing # next to 34.1		
	Clause 34.2 is amended by inserting # next to 34.2		
	Clause 34.8 is amended by deleting the following words:		
	- "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"		
	Clause 34.13 is amended by following:		
	- replacing "seven (7) **calendar days**" with "twenty one (21) **calendar days**"		
	- deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
35	Payment to other parties (clause 35)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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Cancellation (A36-A39):

36 Cancellation by employer - contractor's default (clause 36)

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

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

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

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

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

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

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

Fixed	Item
Value Related	Item
Time Related	Item

37 Cancellation by employer - loss and damage (clause 37)

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

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

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

Fixed	Item
Value Related	Item
Time Related	Item

Carried to Collection	R

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38	Cancellation by contractor - employer's default (clause 38)		
	Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"		
	Clause 38.0 is amended by the addition of the following clause:		
	38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
39	Cancellation - cessation of the works (clause 39)		
	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"		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Dispute (A40):		
40	Dispute settlement (clause 40)		
	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"		
	Clause 40.6 is amended by removing the reference to:		
	- No clause		
	Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:		
	- Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs		
	Fixed	Item	
	Value Related	Item	
	Carried to Collection	R	

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	Time Related	Item	
	Substitute provisions (A41):		
41	State clauses (clause 41)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Contract variables (A42):		
42	Pre- and post-tender information (clause 42)		
	Tenderers are referred to the "Contract Variables" as scheduled hereunder for variables pertaining to this contract		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	

CONTRACT VARIABLES

THE SCHEDULE

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 this **agreement**

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

42.0 PRE-TENDER INFORMATION

42.1 CONTRACTING AND OTHER PARTIES

Note: ***For the relevant physical and postal addresses, telephone and facsimile numbers, see "Notes to Tenderers" bound at the front of this document***

	Carried to Collection	R

42.1.1 **Employer:**

The Mvula Trust

[1.2] Physical address:
25 Rhodesdrift St
Bendor Ext 30
Polokwane
0699

42.1.2 **Principal Agent:**
[1.1, 5.1] *Sky High Consulting Engineers*

[1.1] **Representative of the Employer:**

The person concerned, postal address and contact details will be made available prior to contract signing

42.1.3 **Agent (1):**
[1.1, 5.2]

Agent's service: ***Quantity Surveyor***

42.1.4 **Agent (2):**
[1.1, 5.2]

Agent's service: ***Architect***

42.1.5 **Agent (3):**
[1.1, 5.2]

Agent's service: ***Structural and Civil Engineer***

42.1.6 **Agent (4):**
[1.1, 5.2]

Agent's service: ***Electrical/Mechanical Engineer***

42.1.7 **Agent (5):**
[1.1, 5.2] ***Not applicable***

42.1.8 **Agent (6):**
[1.1, 5.2] ***Not applicable***

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42.1.9 **Agent (7):**
[1.1,
[5.2] ***Not applicable***

42.2 CONTRACT DETAILS

42.2.1 **Works** description:
[1.1]

The works shall be as described in "Notes to Tenderers"

42.2.2 **Site** description:
[1.1]

The site shall be as described in "Notes to Tenderers"

42.2.3 Work or installations by direct contractors:
[22.2]

Refer to "Section 4" of this document for work or installations, where applicable, to be done by direct contractors

42.2.4 Specific options that are applicable to a **State** organ only

[41.0] Where so:

[1.1#] (1) Interest rate legislation:
[31.11.2#]
[31.12.2#] The interest rate applicable will be 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)

[11.2#] (2) Lateral support insurance to be effected by the contractor:

No

[31.4.2#] (3) Payment will be made for materials and goods:

Yes

[40.2.2#] (4) Dispute resolution by litigation:

No

[26.1.2#] (5) Extended **defects** liability period applicable to the following elements:

- ***The whole of the electrical installation***

42.2.5 Possession of the **site** is be given on:
[15.2.1#]

Within ten (10) working days of the contractor complying with the terms of 15.1.4

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42.2.6 Period for the commencement of the **works**
[15.3] after the co**ntractor** takes possession of the site:

The contractor shall forthwith deliver his plant and material to the site and shall commence with the works in due diligence

42.2.7 The date for practical completion and the penalty per calendar day for the **works** as a **whole**:

Date:
[24.3.1] ***Within twelve (12) calendar months, exclusive of builders' holidays, after the date of site handover***

Penalty:
[30.1] ***0,05% of the tendered amount, inclusive of value added tax***

42.2.8 The date for practical completion and the penalty per calendar day for the **works** in **sections**:

Date:
[24.3.1] ***Not applicable***

Penalty:
[28.1] ***Not applicable***

42.2.9 The **law** applicable to this **agreement** shall be that of:

[1.2] ***Republic of South Africa***

42.3 INSURANCES

42.3.1 Contract works insurance:
[10.1#, 10.2#, 12.1#]
To be effected by: ***Contractor***
For the sum of: ***Tendered amount plus 20%***
With a deductible of: ***Not exceeding 5% of each and every claim***

42.3.2 Supplementary insurance is required:
No

42.3.3 Public liability insurance:
[11.1#, 12.1#]
To be effected by: ***Contractor***
For the sum of: ***R 10 000 000-00***
With a deductible of: ***Not exceeding 5% of each and every claim***

42.3.4 Support insurance to be effected by the employer:
[11.2#, 12.1#] ***Not applicable***

Carried to Collection R

42.4 DOCUMENTS

42.4.1 *[3.3, 15.1.3, 31.16.2#]* Waivers of contractor's lien or right of continuing possession is required:

Not applicable (No clause)

42.4.2 Construction document copies to be supplied to the **contractor** free of charge:

[3.7] ***Three (3) copies of the construction documents***

42.4.3 **Bills of quantities/Lump sum document** schedule of rates drawn up in accordance with:

Standard System of Measuring Building Work (Sixth edition as amended)

42.4.4 On acceptance of the tender the **bills of quantities** is to be submitted:

[15.1.1] ***Not applicable (No clause)***

42.4.5 *[3.4]* **JBCC** Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The **contract value** is to be adjusted using **CPAP** *[31.5.3]* indices:

Yes

Base month: ***Tender closing date***

[32.13] Where **CPAP** is applicable, the **contract sum** swill be adjusted in accordance with the **JBCC** Contract Price Adjustment Provisions (**CPAP**) as set out in the **CPAP** Indices Application Manual as prepared by the **JBCC** Series 2000, code 2118, dated May 2005 and any amendments thereto:

1) Glass, etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities

2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index Work Group 160, Electrical Installations. Uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems, shall be adjusted in terms of the index Work Group 170, Mechanical Services

3) With reference to Work Group 190 a proportion of the value related preliminaries, pro-rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions if Option A has been selected for the adjustment of preliminaries

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4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers will not be permitted

5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual, the factor of 0,55 shall be substituted by 1,45

Alternative Indices: ***Not applicable***

42.4.7 *[3.10]* Details of changes made to the provision of **JBCC** standard documentation:

Note: ***The amended clauses, with relevant item and page reference numbers, are scheduled hereunder. Refer to each applicable clause for the exact extent of amendments and/or additions made***

Clause:	***Item:***	***Page:***
1.1	*1*	*2*
1.6	*1*	*3*
1.6.4	*1*	*3*
3.2.1	*3*	*4*
3.7	*3*	*4*
3.10	*3*	*4*
4.3	*4*	*4*
5.1.2	*5*	*5*
10.0	*10*	*6*
14.1 to 14.9	*14*	*10*
15.1	*15*	*14*
15.1.1	*15*	*14*
15.2.1	*15*	*14*
15.2.1	*15*	*14*
17.1.11	*17*	*14*
20.1.3	*20*	*15*
26.1.2	*26*	*16*
29.2.5	*29*	*17*
31.5.2	*31*	*18*
31.8	*31*	*18*
31.12	*31*	*19*
32.5.1	*32*	*19*
32.5.4	*32*	*19*
32.5.7	*32*	*19*
34.1	*34*	*20*
34.2	*34*	*20*
34.8	*34*	*20*
34.13	*34*	*20*
36.0	*36*	*21*
36.1	*36*	*21*
36.3	*36*	*21*
37.0	*37*	*22*
37.3.5	*37*	*22*
38.0	*38*	*22*
38.5.4	*38*	*22*
39.3.5	*39*	*23*

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40.2.2	*40*	*23*
40.6	*40*	*23*
40.7.1	*40*	*23*

42.0 POST-TENDER INFORMATION

Note: All information for this section requires consultation with the **contractor**. The principal agent shall not pre-select any of the alternatives available to the **contractor**

42.5 CONTRACT DETAILS

42.5.1 **Contractor:**

_____

_____

Postal address:

_____

_____

_____

Tel: _____

Fax: _____

Tax/VAT Registration number:

_____

Physical address:

_____

_____

_____

Carried to Collection R

42.5.2 The accepted **contract sum**, inclusive of tax, is:

R _____

Amount in words:

_____

_____

_____

42.5.3 The latest day of the month for the issue of an interim *[31.3]* **payment certificate**:

_____

42.5.4 *[32.12]* The preliminaries amounts shall be paid in terms of:

*(*Delete the not elected option)*:

- **Alternative A:** ***Yes/*No**

- **Alternative B:** ***Yes/*No**

42.5.5 *[32.12]* The preliminaries amounts shall be adjusted in terms of:

*(*Delete the not elected option)*

- **Alternative A:** ***Yes/*No**

- **Alternative B:** ***Yes/*No**

42.5.6 *[3.1#]* Not applicable/No clause

Carried to Collection R

42.5.7 *[14]* The security to be provided by the contractor:

(a) in respect of contracts under R1 million, the **contractor** will provide **security** in terms of 14.1

(b) in respect of contracts above R1 million, the **contractor** will provide, as **security,** one of the following:

(1) cash deposit of 10% of the **contract sum** (excluding VAT)

***Yes/*No**

(2) variable construction guarantee of 10% of the **contract sum** (excluding VAT)

***Yes/*No**

(3) payment reduction of 10% of the value certified in the **payment certificate** (excluding VAT)

***Yes/*No**

(4) cash deposit of 5% of the **contract sum** (excluding VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding VAT)

***Yes/*No**

(5) fixed construction guarantee of 5% of the **contract sum** (excluding VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding VAT)

***Yes/*No**

Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short Term Insurance Act, 1998 (Act No 35 of 1998) or by a bank duly registered in terms of the Bank Act, 1990 (Act No 94 of 1990), all in accordance with the pro-forma documents to be provided. No alterations or amendments of the wording of the pro-forma will be accepted

42.5.8 *[29.7.2]* The annual holiday period after the commencement of the **construction period**:

From:

_____ to _____

Carried to Collection R

42.6 DOCUMENTS

42.6.1 Contract documents marked and annexed hereto:

*(*Delete the not elected option)*

- Priced **bills of quantities:**

***Yes/*No**

Document marked as:_____

- **Lump sum document:**

***Yes/*No**

Document marked as:_____

- **Guarantees:**

***Yes/*No**

Document marked as:_____

- **Contract drawings:**

***Yes/*No**

Document marked as:_____

- **Other documents:**

***Yes/*No**

*(*If "Yes", specify:)*

_____

_____

_____

_____

_____

42.7 DISPUTE RESOLUTION

Not applicable (No clause)

Also refer to previous clause 42.2.4 [40.2.2#] in this regard

Carried to Collection R

42.8 SIGNATURES OF THE CONTRACTING PARTIES

- Thus done and signed at _____

  on _____

  Name of signatory:

  _____

  For and behalf of the **Employer** who by signature hereof warrants authorisation hereto:

  _____

  As Witness:

  _____

- Thus done and signed at _____

  on _____

  Capacity of signatory:

  _____

  For and behalf of the **Contractor** who by signature hereof warrants authorisation hereto:

  _____

  As Witness:

  _____

Carried to Collection R

SECTION B: PRELIMINARIES

Definitions and interpretation (B1):

43 Definitions and interpretation (B1.1 - B1.6.5)

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

Fixed	Item
Value Related	Item
Time Related	Item

Documents (B2):

44 Checking of documents (B2.1)

Fixed	Item
Value Related	Item
Time Related	Item

45 Provisional bills of quantities (B2.2)

Fixed	Item
Value Related	Item
Time Related	Item

46 Availability of construction documentation (B2.3)

Fixed	Item
Value Related	Item
Time Related	Item

47 Interests of agents (B2.4)

Fixed	Item
Value Related	Item
Time Related	Item

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48	Priced documents (B2.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
49	Tender submission (B2.6)		
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Bid Form" as used by the Independant Development Trust		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	The site (B3):		
50	Defined works area (B3.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
51	Geotechnical investigation (B3.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
52	Inspection of the site (B3.3)		
	Tenderers shall complete the Compulsory Site Inspection Certificate included in the tender documents and return the same with the tender submission		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
53	Existing premises occupied (B3.4)		
	Fixed	Item	
	Carried to Collection	R	

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	Value Related	Item	
	Time Related	Item	
54	Previous work - dimensional accuracy (B3.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
55	Previous work - defects (B3.6)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
56	Services - known (B3.7)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
57	Services - unknown (B3.8)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
58	Protection of trees, etc (B3.9)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
59	Articles of value (B3.10)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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60	Inspection of adjoining properties, etc (B3.11)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
	Management of contract (B4):		
61	Management of the works (B4.1)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
62	Programming for the works (B4.2)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
63	Progress meetings (B4.3)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
64	Technical meetings (B4.4)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
65	Labour and plant records (B4.5)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
		Carried to Collection	R

	Samples and shop drawings (B5):		
66	Samples of materials (B5.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
67	Workmanship samples (B5.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
68	Shop drawings (B5.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
69	Compliance with manufacturers instructions (B5.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

	Temporary works and plant (B6):		
70	Deposits and fees (B6.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
71	Enclosure of the works (B6.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
72	Advertising (B6.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
73	Plant, equipment, sheds and offices (B6.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
74	Main notice board (B6.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
75	Sub-contractors' notice board (B6.6)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

	Temporary services (B7):		
76	Location (B7.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
77	Water (B7.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
78	Electricity (B7.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
79	Telecommunication equipment (B7.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
80	Ablution facilities (B7.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

	Prime cost amounts (B8):		
81	Responsibility for prime cost amounts (B8.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Attendance on nominated and selected sub-contractors (B9):		
82	General attendance (B9.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
83	Special attendance (B9.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
84	Commissioning - fuel, water and power (B9.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Financial aspects (B10):		
85	Statutory taxes, duties and levies (B10.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

86	Payment of preliminaries (B10.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
87	Adjustment of preliminaries (B10.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
88	Payment certificate cash flow (B10.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
89	Contractor information supply (B10.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	General (B11):		
90	Protection of works (B11.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
91	Protection/isolation of existing/sectionally occupied work (B11.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

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92	Site security (B11.3)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
93	Notice before covering work (B11.4)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
94	Disturbance (B11.5)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
95	Environmental disturbance (B11.6)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
96	Works cleaning and clearing (B11.7)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
97	Vermin (B11.8)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
98	Overhand work (B11.9)		
		Fixed	Item
		Carried to Collection	R

		Value Related	Item	
		Time Related	Item	
99	Instruction manuals and guarantees (B11.10)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
100	As-built information (B11.11)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
101	Tenant installations (B11.12)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	Schedule of variables (B12):			
102	Pre-tender information (B12.1)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
103	Post-tender information (B12.2)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
		Carried to Collection	R	

12.0 SCHEDULE OF VARIABLES

This **schedule** contains all the elections and details required to be made by the **employer** and **contractor** in terms of these **preliminaries**. Spaces provided for the insertion of information must be filled in, shown as an annexure or not applicable or deleted and not left blank. 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

Where information required is detailed in bills of quantities, its repetition is not required in this schedule. The schedule items should then be marked "see Bills of Quantities" and not deleted or left blank

The schedule is divided into pre-tender and post-tender sections. The pre-tender section must be completed in full and included in the tender documents. The post-tender section is to be completed by the principal agent according to the elections made by the contractor

12.1 PRE-TENDER INFORMATION

12.1.1 ***Provisional bills of quantities [B2.2]***

The quantities are provisional:

No

12.1.2 ***Availability of construction documentation [B2.3]***

Construction documentation is complete:

Yes

12.1.3 ***Interest of agents [B2.4]***

Non

12.1.4 ***Defined works area [B3.1]***

The area of the works to be occupied by the contractor, any restrictions on the area and the limit of access or exit, if any, will be pointed out to the contractor on the date possession of the site is given

12.1.5 ***Geotechnical investigation [B3.2]***

A geotechnical report is available. The contractor is urged to contact the Principal Agent should a copy of this report be required

The contractor is, however, still urged to inspect the site and thoroughly acquaint himself with the local conditions, the height of the water table, etc

12.1.6 ***Existing premises occupied [B3.4]***

Not applicable

Carried to Collection R

12.1.7 **Previous work - dimensional accuracy *[B3.5]***

Not applicable

12.1.8 ***Previous work - defects [B3.6]***

Not applicable

12.1.9 ***Services - known [B3.7]***

All known existing services will be pointed out on site by the principal agent on the date possession of the site is given

Care must be taken not to damage any of the existing services on site as any damage in this regard will be for the account of the contractor. In the event of any such damage, it will be expected from the contractor to notify the principal agent at once in writing and to rectify/repair and make good such damage within twenty four (24) hours of the occurrence of the event to the full satisfaction of the principal agent

12.1.10 ***Protection of trees [B3.9]***

The contractor is to ensure at all times that,
under no circumstances adjacent indigenous vegetation, trees,
etc. are being damaged as a result from the construction
activities and/or actions by his personnel

Prior approval is to be obtained from the
principal agent for the removal of any tree should
it be required due to the positioning of the
buildings on the site and/or other construction
work to be executed

12.1.11 ***Inspection of adjoining properties [B3.11]***

Not applicable

12.1.12 ***Enclosure of the works [B6.2]***

Not applicable

12.1.13 ***Offices [B6.4.3]***

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use for meetings to be held on site. The minimum size of the office shall be 4 x 4 x 2,70m high internally with concrete floor, insulated ceiling and roof. The office shall be suitably ventilated, equipped with electric lighting and fitted with table, six (6) chairs, one (1) pining board 2,40 x 1,20m high, one (1) writing board 2,40 x 1,20m high and a set of ten (10) aluminium "Ozafile" drawing hangers complete with stand. The office shall be kept clean and fit for use at all times

Carried to Collection R

12.1.14 ***Main notice board [B6.5]***

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m high, constructed of suitable boarding with flat smooth surface on a suitable square tubular steel sub-frame and fixed to and including a suitable supporting structure of timber or tubular posts and braces

The exact extent of the details, colour scheme and wording will be provided by the principal agent on the day of the site handover

12.1.15 ***Sub-contractors' notice board [B6.6]***

A notice board is required:

No

12.1.16 ***Water [B7.2]***

Alternative selected: ***A***

12.1.17 ***Electricity [B7.3]***

Alternative selected: ***A***

12.1.18 ***Telecommunications [B7.4]***

Alternative selected: ***A***

12.1.19 ***Ablution facilities [B7.5]***

Alternative selected: ***A***

12.1.22 ***Protection of existing/sectionally occupied works [B11.2]***

Protection is required:

No

12.1.21 ***Special attendance [B9.2]***

Special attendance shall, without in any way limiting the meaning and interpretation thereof, include the following general services to be rendered by the contractor to all nominated and/or selected sub-contractors or other contractors engaged by the employer:

1. ***Making good after nominated and/or selected sub-contractors and other contractors***

2. ***Co-ordinating the main contract work with that of the nominated and/or selected sub-contractors and other contractors***

12.1.22 ***Protection of the works [B11.1]***

Not applicable

Carried to Collection R

12.1.23 ***Disturbance [B11.5]***

Not applicable

12.2 POST-TENDER INFORMATION

*(*Delete the not elected option)*

12.2.1 ***Payment of preliminaries [B10.2]***

- Option A (prorated):

****Yes/*No***

- Option B (calculated):

****Yes/*No***

12.2.2 ***Adjustment of preliminaries [B10.3]***

- Option A (three categories):

****Yes/*No***

- Option B (detailed breakdown):

****Yes/*No***

12.2.3 ***Additional agreed preliminaries items***

Details *(to be provided)*:

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Carried to Collection R

Carried to Collection R

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SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where "NOT APPLICABLE" appears against an item

104 **Clause C1.1 - Contract drawings**

For contract based on a **bills of quantities:**

Save for the drawings included in the "Supplementary Information" section (which is bound at the back of this document), no other drawings are issued with the tender documents. A complete set of drawings indicating the exact scope of the work can be viewed, during normal office hours, at the offices of the **principal agent**. The tenderer is urged to thoroughly inspect and acquaint himself with the nature and extent of the **works,** as defined on the drawings, 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	Item
Value Related	Item
Time Related	Item

105 **Clause C1.2 - Contract drawings**

For a contract based on a **lump sum document:**

A full set of drawings is issued with the tender documents indicating the full 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	Item
Value Related	Item
Time Related	Item

106 **Clause C2 - General preambles**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the **bills of quantities/lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

Fixed	Item
Value Related	Item

Carried to Collection	R

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	Time Related	Item	
107	**Clause C3 - Trade names** Wherever a trade name for any product has been described in the **bills of quantities/lump sum document**, the tenderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
108	**Clause C4 - Imported materials and equipment** Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
109	**Clause C5 - Viewing the site in security areas** The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

110	**Clause C6 - Commencement of works in security areas** As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractors** account		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
111	**Clause C7 - Entrance permits to security areas** As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
112	**Clause C8 - Security check of personnel** The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

113	**Clause C9 - Prohibiting of taking photographs** In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
114	**Clause C10 - 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 clauses 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 31 of Section 1: Preliminaries (Section A) or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
115	**Clause C10.1 - Awareness champion** Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

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116	**Clause C10.2 - Awareness workshops** Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
117	**Clause C10.3 - Posters, booklets, videos, etc** Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
118	**Clause C10.4 - Access to condoms** Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
119	**Clause C10.5 - Monitoring** Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

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120	**Clause C11 - Occupational Health and Safety Act** The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). A copy of the document may be obtained from the Principal Agent It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities/lump sum document** The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent,** notwithstanding the provisions of clause 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 Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
121	**Clause C12 - Overtime** Should it be required, for any reason whatsoever, that overtime is to be worked, the costs of such overtime shall be borne by the **contractor** unless the **principal agent** has specifically instructed and authorized in writing, prior to the execution thereof, that costs for such overtime will to be borne by the **employer**		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
122	**Clause C13 - Non-cession of monies** The **contractor** shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract		
	Fixed	Item	
	Value Related	Item	
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TSHIKAMBE PRIMARY SCHOOL

	Time Related	Item	
123	**Clause C14 - Expanded Public Works Programme (EPWP)**		
	The **contractor** shall allow for the monitoring and evaluation as well as the implementation of the Expanded Public Works Programme		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	Carried to Collection	R	

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TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 1				
	EARTHWORKS				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	106		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	106		
	Soil poisoning and insecticide				
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists				
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	34		
4	Pit	m3	28		
5	For aprons thickenning	m3	6		
	Extra over trench and hole excavation in earth for excavation, in:				
6	Soft rock	m3	17		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

7	Hard rock	m3	7		
	Extra over all excavations for carting away:				
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	24		
	Risk of collapse of excavations:				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	75		
	Keeping excavations free of water:				
10	Keeping excavations free of water		Item		
	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
11	In backfilling to trenches, etc.	m3	22		
12	Under floors, steps, pavings, etc.	m3	13		
	Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
13	Under floors, steps, pavings, etc.	m3	16		
	Compaction of surfaces:				
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	52		
15	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	106		
16	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	333		
	Prescribed density tests on filling:				
17	Modified AASHTO Density test	No	4		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
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EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

SOIL POISONING

Soil insecticide:

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	52		
19	To bottom of concrate aprons	m2	106		
20	To bottoms and sides of trenches, etc.	m2	333		
	Carried to Collection			R	

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TSHIKAMBE PRIMARY SCHOOL

Bill No 1

EARTHWORKS

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EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount

SECTION 2

BILL NO 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately)

UNREINFORCED CONCRETE, ETC

25MPa/19mm Concrete, in:

1	Strip footings	m3	6		
2	Ditto, but surface bed in pit	m3	4		
3	Aprons cast in panels	m3	5		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	16		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	16		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
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CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

	REINFORCED CONCRETE, ETC				
	25MPa/19mm Concrete, in:				
6	Slabs	m3	7		
	TEST BLOCKS				
7	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	10		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wooden float:				
8	Aprons and pavings to falls	m2	50		
	Finishing top surfaces of concrete smooth with a steel float:				
9	Surface beds, slabs, etc.	m2	52		
	FORMWORK				
	ROUGH FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, etc. not exceeding 300mm wide or high	m	30		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m	14		
12	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT (PROVISIONAL)				
	Mesh reinforcement:				
13	Mesh steel fabric reinforcement Ref 395 fabric reinforcement laid in surface beds, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	52		
	Carried to Collection			R	

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CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Bill No 2

CONCRETE,FORMWORK AND REINFORCEMENT

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CONCRETE,FORMWORK AND REINFORCEMENT
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Item No		Quantity	Rate	Amount

SECTION 2

BILL NO 3

MASONRY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

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

User note: The above preamble generally applies for works in hot and humid coastal areas

Face bricks

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

	Carried to Collection	R	

	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork in approved NFP hard burnt clay bricks (14MPa nominal compressive strength) in class I mortar:				
1	One brick walls	m2	21.00		
2	One brick walls in pit	m2	58		
3	Half brick corbelling in pit	m	29.00		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
4	Extra over brickwork for face brickwork in foundation	m2	11.00		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
5	Half brickwork for face brick walls pointed both sides	m3	20		
6	One brickwork for face brick walls pointed both sides	m2	117		
7	Extra over brickwork for face brickwork in beamfilling	m2	30		
8	Fair raking and cutting	m	10		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	9		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement:				
12	75mm Wide reinforcement built in horizontally	m	636		
13	150mm Wide reinforcement built in horizontally	m	659		
	Turning pieces:				
14	230mm Wide turning piece to lintels, etc.	m	27		
	Galvanised wire ties etc:				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	m2	34		
	Prestressed fabricated lintels:				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	27		
	Ventillation bricks:				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	m	10		
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MASONRY
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Bill No 3

MASONRY

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TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 4				
	WATERPROOFING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course:				
1	On walls	m2	30		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	52		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames	m2	25		
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BUILDING-SD5
Bill No 4
WATERPROOFING
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 2

BILL NO 5

ROOF COVERINGS

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

	Carried to Collection	R	

Section No 2
BUILDING-SD5
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

PROFILED METAL SHEETING AND ACCESSORIES

Roof covering with pitch not exceeding 25 finish fixedto timber purlins (elsewhere)

1	Roof covering with pitch not exceeding 25 degrees	m2	86

Sundries:

2	12" Thermal resistance sisalition laid on purlins	m2	86

RAINWATER DISPOSAL

Aluzink seamless metal gutters:

3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	14
4	Extra over for closed ends	No	4
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5
6	Extra over rainwater pipe for eaves offset	No	4
7	Ditto, for shoe	No	2

Carried to Collection R

Section No 2
BUILDING-SD5
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Bill No 5

ROOF COVERINGS

COLLECTION

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Section No 2
BUILDING-SD5
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO 6				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Descriptions				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	No	69		
2	76 x 38mm Wall plates	No	16		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	No	55		
	Sundries:				
4	Two coats creosote on sawn timbers	No	39		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	34		
6	Hurricane clips	No	40		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	No	27		
	DOORS, ETC.				
	Wrought meranti external doors hung to steel frames:				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	6		
9	40mm Framed batten door 914 x 2032mm high of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round	No	2		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 6

CARPENTRY AND JOINERY

COLLECTION

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Section No 2
BUILDING-SD5
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 2

BILL NO 7

IRONMONGERY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Finishes to ironmongery

Where applicable are indicated by suffixes in accordance with the following list:

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

Fixing of door locks, handles, flush bolts, etc.

Fixing of all door locks, handles, flush bolts, etc. shall be regarded as fixing and/or fitting to timber door leaves, unless specifically otherwise indicated

Carried to Collection		R	

	CATCHES, CABIN HOOKS, ETC.				
	Approved:				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	4		
3	Indicator lockset	No	4		
	PUSH PLATES, KICK PLATES, ETC.				
	Approved:				
4	Type DPP-430-BL-SF 150 X 300 X 1,2mm Thick push plates fixed to timber door	No	2		
5	Type DKP-430-SF, 300 wide x 1,2mm Thick Kick plate fixed to timber door	No	2		
	DOOR CLOSERS				
	Approved:				
6	TS71/EN3-4 SS Standard arm door closer and non-hold open action	No	2		
	HANDLES				
	Aluminium Pull Handle				
7	Set of two, 300mm pull handles fixed back to back on doors	No	2		
	DOOR STOPS				
	Approved:				
8	38mm Diameter rubber door stop plugged	No	8		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	4		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

	Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts:				
10	32mm Grab rail 700mm long with two 206mm return ends bolted	No	2		
11	32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted	No	2		
	BATHROOM FITTINGS				
	"Kimberly-Clark" or similar approved:				
12	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	6		
	Stainless steel:				
13	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	4		
	Sundries:				
14	Female she-bin plugged to walls	No	4		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 7

IRONMONGERY

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Section No 2
BUILDING-SD5
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO 8				
	METALWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Primer				
	All surfaces of steelwork to be painted with one coat approved factory primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained				
	Rebates of door frames				
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors				
	Striking plates for door frames				
	Unless otherwise described all striking plates to be of chromium-plated type				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls:				
1	Frame for door 813 x 2032mm high	No	4		
	1,6mm Double rebated frames suitable for one brickwalls:				
2	Frame for door 900 x 2032mm high	No	4		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	8		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

4	Window type NE 7,1022 x 654mm high including burglar bars	No	4		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2		
	BUDGETARY ALLOWANCES				
	The items described hereunder cover work which is not fully defined at tender stage and is intended to be executed by the contractor at rates to be agreed with the contractor in accordance with clause B1.9 of the Preliminaries at the time the work is defined. Theamounts shown shall be used as directed by the Representative/Agent and shall be deducted in whole or in part if not required.				
	Protective SHE-BIN cages (female toilets only)				
6	Allow the Provisional Amount of R12 800.00 (Twelve Thousand Eight Hundred Rand) for supply and installation of protective steel cage to female she-bins		Item		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 8

METALWORK

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Section No 2
BUILDING-SD5
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO 9				
	PLASTERING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete: :				
1	30mm Thick on floors	m2	42		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork:				
2	On pits walls	m2	58		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	42		
	EPOXY				
4	Epoxy finish to floors	m2	42		
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Section No 2
BUILDING-SD5
Bill No 9
IN SITU FINISHES
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 2

BILL NO 10

PLUMBING AND DRAINAGE (PROVISIONAL)

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

PVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Excavations

Prices for all excavations must include for necessary staging and for the risk of collapse of excavation side and also keeping excavations free from water

	Carried to Collection		R	

COMPACTING

Where filling is described as:

- filling in general:

  "compacted" shall mean compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes described as "under solid floors, etc.,":

  "compacted" shall mean approved backfilling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes where described as "under roads, paving, etc.,":

  "compacted" shall mean approved gravel back filling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

Stainless steel basins, sinks, wash troughs, urinals, etc.

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be type 304 (18/8)

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Sealing of all joints

Sanitary fittings to be sealed watertight with an approved silicon sealant along all junctions with walls, tiled surfaces, vanity slabs, work tops, etc.

ENVIRO-LOO TOILET SYSTEMS

1	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only)	No	5		
2	Standard Enviro Loo Industrial 1040 including ceramic toilet bowl	No	5		
3	Supply and install heavy duty double flap toilet seat	No	5		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	URINAL AND EVAPORATIVE SYSTEM				
4	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo Evaporative urinal only)	No	1		
5	Standard Enviro Loo Industrial Evaporative Urinal	No	1		
6	Ceramic urinal bowl	No	2		
	SANITARY FITTINGS				
	"Vaal Sanitaryware" vitreous china wash hand basins and pedestals:				
7	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts(product code 8448Z0).	No	5		
	WASTE UNIONS, ETC.				
	"Cobra":				
8	32mm Code 301 chrome plated basin waste union.	No	5		
	TRAPS, ETC.				
	"Vulcathene":				
9	40mm Deep seal "P" or "S" trap	No	5		
	TAPS, VALVES, ETC.				
	Brass:				
10	15mm Fullway gate valve	No	5		
	"Cobra Watertech light pattern angle regulat-ing valves":				
11	15 x 10mm Code 232/10 chrome plated angle regulating valve with adaptor nut and ring	m	3		
12	10mm Diameter x 350mm long code C-232PIPE chrome plated supply tube and capnut	m	3		
13	15mm Code 232/350 chrome plated angle regulating valve with350mm long flexible service connection	m	3		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	"Cobra" Watertech "Star", "Aquila" and Carina bibtaps:				
14	15mm Chrome plated code 214CA-15 "Carina" toilet bibtap	No	3		
	New Items:				
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	SANITARY PLUMBING				
	uPVC soil and vent pipes:				
15	50mm Pipes	m	25		
16	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
17	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	25		
	Extra over uPVC soil and vent pipes for fittings:				
18	50mm End cap	No	1		
19	110mm Eccentric reducer	No	4		
20	50mm Bend	No	12		
21	110mm Bend	No	12		
22	50mm Junction	No	4		
23	110mm Junction	No	4		
24	110mm Reducing Junction	No	3		
25	50mm Access bend	No	3		
26	110mm Access bend	No	6		
27	110mm Access bend with anti syphon horn	No	2		
	WATER SUPPLIES				
	Class 6 HDPe type IV pipes:				
28	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
	Extra over Class 10 HDPe type IV pipes for "Plasson" fittings:				
29	32mm Reducer	No	6		
30	32mm Bend	No	10		
31	32mm Threaded adaptor	No	5		
32	32mm Tee	No	7		
	(End of extras)				
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	Class "O" copper pipes:				
33	15mm Pipes	m	25		
34	15mm Fittings	No	5		
	TESTING				
35	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect		Item		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Bill No 10

PLUMBING AND DRAINAGE

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Section No 2
BUILDING-SD5
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO 11				
	GLAZING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	SUPPLEMENTARY PREAMBLES				
	Float glass				
	The term "float glass" is used for monolithic annealed glass				
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6.38mm Obscure safety glass:				
1	Panes not exceeding 0,1 m2	m2	6		
	Carried Forward to Summary of Section No. 2			R	

Section No 2
BUILDING-SD5
Bill No 11
GLAZING
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 2				
	BILL NO 12				
	PAINTWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Paint				
	All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:				
1	On fascias and barge boards	m2	24		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel:				
2	On doors (Internal)	m2	33		
3	On doors (External)	m2	39		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel:				
4	On door frames	m2	30		
5	On gates (Measured over the full flat area of both sides)	m2	28		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

6	On gutters and down pipes	m	17		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel:				
7	On windows with burglar bars	m	6		
	Carried to Collection			R	

Section No 2
BUILDING-SD5
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 12

PAINTWORK

COLLECTION

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Section No 2
BUILDING-SD5
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Section No 2

SECTION SUMMARY - BUILDING-SD5

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Section No 2
BUILDING-SD5
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 1				
	EARTHWORKS				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	91		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	91		
	Soil poisoning and insecticide				
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists				
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	20		
4	Pit	m3	35		
5	For aprons thickenning	m3	6		
	Extra over trench and hole excavation in earth for excavation, in:				
6	Soft rock	m3	10		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

7	Hard rock	m3	4		
	Extra over all excavations for carting away:				
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	21		
	Risk of collapse of excavations:				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	64		
	Keeping excavations free of water:				
10	Keeping excavations free of water		Item		
	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
11	In backfilling to trenches, etc.	m3	6		
12	Under floors, steps, pavings, etc.	m3	11		
	Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
13	Under floors, steps, pavings, etc.	m3	12		
	Compaction of surfaces:				
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	39		
15	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	53		
16	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	91		
	Prescribed density tests on filling:				
17	Modified AASHTO Density test	No	4		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

SOIL POISONING

Soil insecticide:

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	39		
19	To bottom of concrate aprons	m2	53		
20	To bottoms and sides of trenches, etc.	m2	91		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Bill No 1

EARTHWORKS

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Section No 3
BUILDING-GRD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount

SECTION 3

BILL NO 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately)

UNREINFORCED CONCRETE, ETC

25MPa/19mm Concrete, in:

1	Strip footings	m3	5		
2	Ditto, but surface bed in pit	m3	4		
3	Aprons cast in panels	m3	4		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	16		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	16		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

	REINFORCED CONCRETE, ETC				
	25MPa/19mm Concrete, in:				
6	Slabs	m3	6		
	TEST BLOCKS				
7	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	10		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wooden float:				
8	Aprons and pavings to falls	m2	39		
	Finishing top surfaces of concrete smooth with a steel float:				
9	Surface beds, slabs, etc.	m2	67		
	FORMWORK				
	ROUGH FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, etc. not exceeding 300mm wide or high	m	30		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m	14		
12	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT (PROVISIONAL)				
	Mesh reinforcement:				
13	Mesh steel fabric reinforcement Ref 395 fabric reinforcement laid in surface beds, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	53		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Bill No 2

CONCRETE,FORMWORK AND REINFORCEMENT

COLLECTION

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Section No 3
BUILDING-GRD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 3

BILL NO 3

MASONRY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

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

User note: The above preamble generally applies for works in hot and humid coastal areas

Face bricks

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

	Carried to Collection	R	

Pointing

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

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

Brickwork in approved NFP hard burnt clay bricks (14MPa nominal compressive strength) in class I mortar:

1	One brick walls	m2	18.00	
2	One brick walls in pit	m2	49	
3	Half brick corbelling in pit	m	25.00	

FACE BRICKWORK

Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	9.00	

SUPERSTRUCTURE

FACE BRICKWORK

Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m3	20	
6	One brickwork for face brick walls pointed both sides	m2	97	
7	Extra over brickwork for face brickwork in beamfilling	m2	25	
8	Fair raking and cutting	m	10	

Carried to Collection R

Section No 3
BUILDING-GRD4
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	7		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	7		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement:				
12	75mm Wide reinforcement built in horizontally	m	478		
13	150mm Wide reinforcement built in horizontally	m	564		
	Turning pieces:				
14	230mm Wide turning piece to lintels, etc.	m	26		
	Galvanised wire ties etc:				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	m2	34		
	Prestressed fabricated lintels:				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	26		
	Ventillation bricks:				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	m	10		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

Bill No 3

MASONRY

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Section No 3
BUILDING-GRD4
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 4				
	WATERPROOFING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course:				
1	On walls	m2	111		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	66		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames	m2	29		
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Section No 3
BUILDING-GRD4
Bill No 4
WATERPROOFING
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 3

BILL NO 5

ROOF COVERINGS

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

	Carried to Collection	R	

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

PROFILED METAL SHEETING AND ACCESSORIES

Roof covering with pitch not exceeding 25 finish fixedto timber purlins (elsewhere)

1	Roof covering with pitch not exceeding 25 degrees	m2	63

Sundries:

2	12" Thermal resistance sisalition laid on purlins	m2	63

RAINWATER DISPOSAL

Aluzink seamless metal gutters:

3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	10
4	Extra over for closed ends	No	4
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5
6	Extra over rainwater pipe for eaves offset	No	4
7	Ditto, for shoe	No	2

Carried to Collection R

Section No 3
BUILDING-GRD4
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Bill No 5

ROOF COVERINGS

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Section No 3
BUILDING-GRD4
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 6				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Descriptions				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	No	50		
2	76 x 38mm Wall plates	No	16		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	No	40		
	Sundries:				
4	Two coats creosote on sawn timbers	No	25		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	34		
6	Hurricane clips	No	40		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	No	23		
	DOORS, ETC.				
	Wrought meranti external doors hung to steel frames:				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	4		
9	40mm Framed batten door 914 x 2032mm high of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round	No	2		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 6

CARPENTRY AND JOINERY

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Section No 3
BUILDING-GRD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 3

BILL NO 7

IRONMONGERY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Finishes to ironmongery

Where applicable are indicated by suffixes in accordance with the following list:

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

Fixing of door locks, handles, flush bolts, etc.

Fixing of all door locks, handles, flush bolts, etc. shall be regarded as fixing and/or fitting to timber door leaves, unless specifically otherwise indicated

	Carried to Collection	R	

	CATCHES, CABIN HOOKS, ETC.				
	Approved:				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	4		
3	Indicator lockset	No	4		
	PUSH PLATES, KICK PLATES, ETC.				
	Approved:				
4	Type DPP-430-BL-SF 150 X 300 X 1,2mm Thick push plates fixed to timber door	No	2		
5	Type DKP-430-SF, 300 wide x 1,2mm Thick Kick plate fixed to timber door	No	2		
	DOOR CLOSERS				
	Approved:				
6	TS71/EN3-4 SS Standard arm door closer and non-hold open action	No	2		
	HANDLES				
	Aluminium Pull Handle				
7	Set of two, 300mm pull handles fixed back to back on doors	No	2		
	DOOR STOPS				
	Approved:				
8	38mm Diameter rubber door stop plugged	No	6		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

	Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts:				
10	32mm Grab rail 700mm long with two 206mm return ends bolted	No	2		
11	32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted	No	2		
	BATHROOM FITTINGS				
	"Kimberly-Clark" or similar approved:				
12	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	Stainless steel:				
13	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	3		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 7

IRONMONGERY

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Section No 3
BUILDING-GRD4
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 8				
	METALWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Primer				
	All surfaces of steelwork to be painted with one coat approved factory primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained				
	Rebates of door frames				
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors				
	Striking plates for door frames				
	Unless otherwise described all striking plates to be of chromium-plated type				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls:				
1	Frame for door 813 x 2032mm high	No	4		
	1,6mm Double rebated frames suitable for one brickwalls:				
2	Frame for door 900 x 2032mm high	No	4		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	6		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

4	Window type NE 7,1022 x 654mm high including burglar bars	No	4		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	3		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 8

METALWORK

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Section No 3
BUILDING-GRD4
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 9				
	PLASTERING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete: :				
1	30mm Thick on floors	m2	43		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork:				
2	On pits walls	m2	49		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	43		
	EPOXY				
4	Epoxy finish to floors	m2	43		
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Section No 3
BUILDING-GRD4
Bill No 9
IN SITU FINISHES
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 3

BILL NO 10

PLUMBING AND DRAINAGE (PROVISIONAL)

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

PVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Excavations

Prices for all excavations must include for necessary staging and for the risk of collapse of excavation side and also keeping excavations free from water

	Carried to Collection		R	

COMPACTING

Where filling is described as:

- filling in general:

  "compacted" shall mean compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes described as "under solid floors, etc.,":

  "compacted" shall mean approved backfilling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes where described as "under roads, paving, etc.,":

  "compacted" shall mean approved gravel back filling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

Stainless steel basins, sinks, wash troughs, urinals, etc.

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be type 304 (18/8)

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Sealing of all joints

Sanitary fittings to be sealed watertight with an approved silicon sealant along all junctions with walls, tiled surfaces, vanity slabs, work tops, etc.

SANITARY FITTINGS

"Vaal Sanitaryware" vitreous china wash hand basins and pedestals:

1	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts(product code 8448Z0).	No	4		
	Carried to Collection			R	

	"Vaal Sanitaryware" vitreous china WC suites:				
2	"Protea" semi-close coupled white vitreous china WC suite (product code 751453) comprising 90 outlet open rim washdown pan and 9-litre low level cistern (product code 710532), complete with heavy duty double flap toilet seat	No	3		
3	"Protea" Paraplegic white vitreous china floor mounted WC pan (product code 750200) and 9-litre low level cistern (code710631), complete with side-flush lever mounted on wall adjacent to cistern	No	1		
4	Supply and install heavy duty double flap toilet seat	No	4		
	"Vaal Sanitaryware" vitreous china urinals:				
5	Lavatera white vitreous china wall mounted top inlet urinal (product code 705426) including 38mm chromium plated domical grating (product code 8787) and chromium plated top inlet spreader (product code 7041Z0) and exposed flush valve(elsewhere measured), fitted on and including two hanger brackets (product code 8127Z0) plugged and screwed to wall	No	3		
	WASTE UNIONS, ETC.				
	"Cobra":				
6	32mm Code 301 chrome plated basin waste union.	No	4		
	TRAPS, ETC.				
	"Vulcathene":				
7	40mm Deep seal "P" or "S" trap	No	4		
	TAPS, VALVES, ETC.				
	Brass:				
8	15mm Fullway gate valve	No	4		
	"Cobra Watertech light pattern angle regulat-ing valves":				
9	15 x 10mm Code 232/10 chrome plated angle regulating valve with adaptor nut and ring	m	3		
10	10mm Diameter x 350mm long code C-232PIPE chrome plated supply tube and capnut	m	3		
11	15mm Code 232/350 chrome plated angle regulating valve with350mm long flexible service connection	m	3		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	"Cobra" Watertech "Star", "Aquila" and Carina bibtaps:				
12	15mm Chrome plated code 214CA-15 "Carina" toilet bibtap	No	3		
	New Items:				
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	SANITARY PLUMBING				
	uPVC soil and vent pipes:				
13	50mm Pipes	m	25		
14	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
15	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	25		
	Extra over uPVC soil and vent pipes for fittings:				
16	50mm End cap	No	1		
17	110mm Eccentric reducer	No	4		
18	50mm Bend	No	12		
19	110mm Bend	No	12		
20	50mm Junction	No	4		
21	110mm Junction	No	4		
22	110mm Reducing Junction	No	3		
23	50mm Access bend	No	3		
24	110mm Access bend	No	6		
25	110mm Access bend with anti syphon horn	No	2		
	WATER SUPPLIES				
	Class 6 HDPe type IV pipes:				
26	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
	Extra over Class 10 HDPe type IV pipes for "Plasson" fittings:				
27	32mm Reducer	No	6		
28	32mm Bend	No	10		
29	32mm Threaded adaptor	No	5		
30	32mm Tee	No	7		
	(End of extras)				
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	Class "O" copper pipes:				
31	15mm Pipes	m	25		
32	15mm Fittings	No	5		
	TESTING				
33	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect		Item		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Bill No 10

PLUMBING AND DRAINAGE

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BUILDING-GRD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 11				
	GLAZING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	SUPPLEMENTARY PREAMBLES				
	Float glass				
	The term "float glass" is used for monolithic annealed glass				
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6.38mm Obscure safety glass:				
1	Panes not exceeding 0,1 m2	m2	6		
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Section No 3
BUILDING-GRD4
Bill No 11
GLAZING
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO 12				
	PAINTWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Paint				
	All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:				
1	On fascias and barge boards	m2	20		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel:				
2	On doors (Internal)	m2	25		
3	On doors (External)	m2	30		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel:				
4	On door frames	m2	22		
5	On gates (Measured over the full flat area of both sides)	m2	21		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

6	On gutters and down pipes	m	17		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel:				
7	On windows with burglar bars	m	5		
	Carried to Collection			R	

Section No 3
BUILDING-GRD4
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 12

PAINTWORK

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Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Section No 3

SECTION SUMMARY - BUILDING-GRD4

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Section No 3
BUILDING-GRD4
TSHIKAMBE PRIMARY SCHOOL

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	BILL NO 1				
	EARTHWORKS				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	88		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	8		
	Soil poisoning and insecticide				
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists				
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	19		
4	Pit	m3	24		
5	For aprons thickenning	m3	6		
	Extra over trench and hole excavation in earth for excavation, in:				
6	Soft rock	m3	10		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

7	Hard rock	m3	4		
	Extra over all excavations for carting away:				
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	54		
	Risk of collapse of excavations:				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	62		
	Keeping excavations free of water:				
10	Keeping excavations free of water		Item		
	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
11	In backfilling to trenches, etc.	m3	6		
12	Under floors, steps, pavings, etc.	m3	10		
	Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
13	Under floors, steps, pavings, etc.	m3	11		
	Compaction of surfaces:				
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	37		
15	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	49		
16	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	88		
	Prescribed density tests on filling:				
17	Modified AASHTO Density test	No	4		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

SOIL POISONING

Soil insecticide:

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	37		
19	To bottom of concrate aprons	m2	49		
20	To bottoms and sides of trenches, etc.	m2	88		
	Carried to Collection			R	

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BUILDING-MD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Bill No 1

EARTHWORKS

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BUILDING-MD4
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

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SECTION 4

BILL NO 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately)

UNREINFORCED CONCRETE, ETC

25MPa/19mm Concrete, in:

1	Strip footings	m3	5		
2	Ditto, but surface bed in pit	m3	4		
3	Aprons cast in panels	m3	4		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	16		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	16		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

	REINFORCED CONCRETE, ETC				
	25MPa/19mm Concrete, in:				
6	Slabs	m3	5		
	TEST BLOCKS				
7	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	10		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wooden float:				
8	Aprons and pavings to falls	m2	38		
	Finishing top surfaces of concrete smooth with a steel float:				
9	Surface beds, slabs, etc.	m2	51		
	FORMWORK				
	ROUGH FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, etc. not exceeding 300mm wide or high	m	30		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m	14		
12	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT (PROVISIONAL)				
	Mesh reinforcement:				
13	Mesh steel fabric reinforcement Ref 395 fabric reinforcement laid in surface beds, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	51		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Bill No 2

CONCRETE,FORMWORK AND REINFORCEMENT

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BUILDING-MD4
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 4

BILL NO 3

MASONRY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

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

User note: The above preamble generally applies for works in hot and humid coastal areas

Face bricks

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

	Carried to Collection	R	

	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork in approved NFP hard burnt clay bricks (14MPa nominal compressive strength) in class I mortar:				
1	One brick walls	m2	17.00		
2	One brick walls in pit	m2	47		
3	Half brick corbelling in pit	m	24.00		
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
4	Extra over brickwork for face brickwork in foundation	m2	9.00		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
5	Half brickwork for face brick walls pointed both sides	m3	38		
6	One brickwork for face brick walls pointed both sides	m2	113		
7	Extra over brickwork for face brickwork in beamfilling	m2	29		
8	Fair raking and cutting	m	10		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	9		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement:				
12	75mm Wide reinforcement built in horizontally	m	344		
13	150mm Wide reinforcement built in horizontally	m	544		
	Turning pieces:				
14	230mm Wide turning piece to lintels, etc.	m	10		
	Galvanised wire ties etc:				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	m2	34		
	Prestressed fabricated lintels:				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	23		
	Ventillation bricks:				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	m	9		
	Carried to Collection			R	

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BUILDING-MD4
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MASONRY
TSHIKAMBE PRIMARY SCHOOL

Bill No 3

MASONRY

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BUILDING-MD4
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MASONRY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 4				
	WATERPROOFING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course:				
1	On walls	m2	108		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	51		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames	m2	49		
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Item No		Quantity	Rate	Amount

SECTION 4

BILL NO 5

ROOF COVERINGS

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

	Carried to Collection	R	

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

PROFILED METAL SHEETING AND ACCESSORIES

Roof covering with pitch not exceeding 25 finish fixedto timber purlins (elsewhere)

1	Roof covering with pitch not exceeding 25 degrees	m2	57	

Sundries:

2	12" Thermal resistance sisalition laid on purlins	m2	57	

RAINWATER DISPOSAL

Aluzink seamless metal gutters:

3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
4	Extra over for closed ends	No	4	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
6	Extra over rainwater pipe for eaves offset	No	4	
7	Ditto, for shoe	No	2	

Carried to Collection R

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BUILDING-MD4
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Bill No 5

ROOF COVERINGS

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BUILDING-MD4
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 6				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Descriptions				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	No	50		
2	76 x 38mm Wall plates	No	16		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	No	48		
	Sundries:				
4	Two coats creosote on sawn timbers	No	25		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	34		
6	Hurricane clips	No	40		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	No	25		
	DOORS, ETC.				
	Wrought meranti internal doors hung to steel frames:				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	4		
9	40mm Framed batten door 914 x 2032mm high of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round	No	1		
	Carried to Collection			R	

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BUILDING-MD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 6

CARPENTRY AND JOINERY

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BUILDING-MD4
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 4

BILL NO 7

IRONMONGERY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Finishes to ironmongery

Where applicable are indicated by suffixes in accordance with the following list:

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

Fixing of door locks, handles, flush bolts, etc.

Fixing of all door locks, handles, flush bolts, etc. shall be regarded as fixing and/or fitting to timber door leaves, unless specifically otherwise indicated

Carried to Collection		R	

	CATCHES, CABIN HOOKS, ETC.				
	Approved:				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	2		
3	Indicator lockset	No	3		
	PUSH PLATES, KICK PLATES, ETC.				
	Approved:				
4	Type DPP-430-BL-SF 150 X 300 X 1,2mm Thick push plates fixed to timber door	No	1		
5	Type DKP-430-SF, 300 wide x 1,2mm Thick Kick plate fixed to timber door	No	1		
	DOOR CLOSERS				
	Approved:				
6	TS71/EN3-4 SS Standard arm door closer and non-hold open action	No	1		
	HANDLES				
	Aluminium Pull Handle				
7	Set of two, 300mm pull handles fixed back to back on doors	No	1		
	DOOR STOPS				
	Approved:				
8	38mm Diameter rubber door stop plugged	No	5		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Carried to Collection			R	
	Section No 4 BUILDING-MD4 Bill No 7 IRONMONGERY **TSHIKAMBE PRIMARY SCHOOL**				

	Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts:				
10	32mm Grab rail 700mm long with two 206mm return ends bolted	No	1		
11	32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted	No	1		
	BATHROOM FITTINGS				
	"Kimberly-Clark" or similar approved:				
12	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4		
	Stainless steel:				
13	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	3		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 7

IRONMONGERY

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BUILDING-MD4
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 8				
	METALWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Primer				
	All surfaces of steelwork to be painted with one coat approved factory primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained				
	Rebates of door frames				
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors				
	Striking plates for door frames				
	Unless otherwise described all striking plates to be of chromium-plated type				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls:				
1	Frame for door 813 x 2032mm high	No	3		
	1,6mm Double rebated frames suitable for one brickwalls:				
2	Frame for door 900 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	8		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

4	Window type NE 7,1022 x 654mm high including burglar bars	No	4		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 8

METALWORK

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Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 9				
	PLASTERING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete: :				
1	30mm Thick on floors	m2	30		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork:				
2	On pits walls	m2	47		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	30		
	EPOXY				
4	Epoxy finish to floors	m2	30		
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Section No 4
BUILDING-MD4
Bill No 9
IN SITU FINISHES
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 4

BILL NO 10

PLUMBING AND DRAINAGE (PROVISIONAL)

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

PVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Excavations

Prices for all excavations must include for necessary staging and for the risk of collapse of excavation side and also keeping excavations free from water

	Carried to Collection		R	

COMPACTING

Where filling is described as:

- filling in general:

  "compacted" shall mean compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes described as "under solid floors, etc.,":

  "compacted" shall mean approved backfilling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes where described as "under roads, paving, etc.,":

  "compacted" shall mean approved gravel back filling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

Stainless steel basins, sinks, wash troughs, urinals, etc.

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be type 304 (18/8)

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Sealing of all joints

Sanitary fittings to be sealed watertight with an approved silicon sealant along all junctions with walls, tiled surfaces, vanity slabs, work tops, etc.

ENVIRO-LOO TOILET SYSTEMS

1	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only)	No	4	
2	Standard Enviro Loo Industrial 1040 including ceramic toilet bowl	No	4	
3	Supply and install heavy duty double flap toilet seat	No	4	
	Carried to Collection			R

Section No 4
BUILDING-MD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	URINAL AND EVAPORATIVE SYSTEM				
4	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo Evaporative urinal only)	No	1		
5	Standard Enviro Loo Industrial Evaporative Urinal	No	1		
6	Ceramic urinal bowl	No	4		
	SANITARY FITTINGS				
	"Vaal Sanitaryware" vitreous china wash hand basins and pedestals:				
7	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts(product code 8448Z0).	No	4		
	WASTE UNIONS, ETC.				
	"Cobra":				
8	32mm Code 301 chrome plated basin waste union.	No	5		
	TRAPS, ETC.				
	"Vulcathene":				
9	40mm Deep seal "P" or "S" trap	No	5		
	TAPS, VALVES, ETC.				
	Brass:				
10	15mm Fullway gate valve	No	4		
	"Cobra Watertech light pattern angle regulat-ing valves":				
11	15 x 10mm Code 232/10 chrome plated angle regulating valve with adaptor nut and ring	No	4		
12	10mm Diameter x 350mm long code C-232PIPE chrome plated supply tube and capnut	No	4		
13	15mm Code 232/350 chrome plated angle regulating valve with350mm long flexible service connection	No	4		
	Carried to Collection			R	

	"Cobra" Watertech "Star", "Aquila" and Carina bibtaps:				
14	15mm Chrome plated code 214CA-15 "Carina" toilet bibtap	No	5		
	New Items:				
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	SANITARY PLUMBING				
	uPVC soil and vent pipes:				
15	50mm Pipes	m	25		
16	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
17	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	25		
	Extra over uPVC soil and vent pipes for fittings:				
18	50mm End cap	No	1		
19	110mm Eccentric reducer	No	4		
20	50mm Bend	No	12		
21	110mm Bend	No	12		
22	50mm Junction	No	4		
23	110mm Junction	No	4		
24	110mm Reducing Junction	No	3		
25	50mm Access bend	No	3		
26	110mm Access bend	No	6		
27	110mm Access bend with anti syphon horn	No	2		
	WATER SUPPLIES				
	Class 6 HDPe type IV pipes:				
28	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
	Extra over Class 10 HDPe type IV pipes for "Plasson" fittings:				
29	32mm Reducer	No	6		
30	32mm Bend	No	10		
31	32mm Threaded adaptor	No	5		
32	32mm Tee	No	7		
	(End of extras)				
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	Class "O" copper pipes:				
33	15mm Pipes	m	25		
34	15mm Fittings	No	5		
	TESTING				
35	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect		Item		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Bill No 10

PLUMBING AND DRAINAGE

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Section No 4
BUILDING-MD4
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 4				
	BILL NO 11				
	GLAZING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	SUPPLEMENTARY PREAMBLES				
	Float glass				
	The term "float glass" is used for monolithic annealed glass				
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6.38mm Obscure safety glass:				
1	Panes not exceeding 0,1 m2	m2	6		
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Section No 4
BUILDING-MD4
Bill No 11
GLAZING
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 4				
	BILL NO 12				
	PAINTWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Paint				
	All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:				
1	On fascias and barge boards	m2	20		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel:				
2	On doors (Internal)	m2	50		
3	On doors (External)	m2	39		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel:				
4	On door frames	m2	30		
5	On gates (Measured over the full flat area of both sides)	m2	28		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

6	On gutters and down pipes	m	7		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel:				
7	On windows with burglar bars	m	6		
	Carried to Collection			R	

Section No 4
BUILDING-MD4
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 12

PAINTWORK

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BUILDING-MD4
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Section No 4

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Section No 4
BUILDING-MD4
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO 1				
	EARTHWORKS				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	78		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	78		
	Soil poisoning and insecticide				
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists				
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	13		
4	Pit	m3	27		
5	For aprons thickenning	m3	2		
	Extra over trench and hole excavation in earth for excavation, in:				
6	Soft rock	m3	7		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

7	Hard rock	m3	3		
	Extra over all excavations for carting away:				
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	42		
	Risk of collapse of excavations:				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	54		
	Keeping excavations free of water:				
10	Keeping excavations free of water		Item		
	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
11	In backfilling to trenches, etc.	m3	6		
12	Under floors, steps, pavings, etc.	m3	7		
	Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
13	Under floors, steps, pavings, etc.	m3	10		
	Compaction of surfaces:				
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	32		
15	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	46		
16	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	78		
	Prescribed density tests on filling:				
17	Modified AASHTO Density test	No	4		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

SOIL POISONING

Soil insecticide:

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	32		
19	To bottom of concrate aprons	m2	46		
20	To bottoms and sides of trenches, etc.	m2	78		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Bill No 1

EARTHWORKS

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BUILDING-FD6
Bill No 1
EARTHWORKS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount

SECTION 5

BILL NO 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately)

UNREINFORCED CONCRETE, ETC

25MPa/19mm Concrete, in:

1	Strip footings	m3	3		
2	Ditto, but surface bed in pit	m3	3		
3	Aprons cast in panels	m3	4		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	16		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	16		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

	REINFORCED CONCRETE, ETC				
	25MPa/19mm Concrete, in:				
6	Slabs	m3	4		
	TEST BLOCKS				
7	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	10		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wooden float:				
8	Aprons and pavings to falls	m2	35		
	Finishing top surfaces of concrete smooth with a steel float:				
9	Surface beds, slabs, etc.	m2	43		
	FORMWORK				
	ROUGH FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, etc. not exceeding 300mm wide or high	m	30		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m	14		
12	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT (PROVISIONAL)				
	Mesh reinforcement:				
13	Mesh steel fabric reinforcement Ref 395 fabric reinforcement laid in surface beds, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	43		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Bill No 2

CONCRETE,FORMWORK AND REINFORCEMENT

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BUILDING-FD6
Bill No 2
CONCRETE,FORMWORK AND REINFORCEMENT
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 5

BILL NO 3

MASONRY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

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

User note: The above preamble generally applies for works in hot and humid coastal areas

Face bricks

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

	Carried to Collection	R	

Pointing

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

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

Brickwork in approved NFP hard burnt clay bricks (14MPa nominal compressive strength) in class I mortar:

1	One brick walls	m2	15.00	
2	One brick walls in pit	m2	43	
3	Half brick corbelling in pit	m	22.00	

FACE BRICKWORK

Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	8.00	

SUPERSTRUCTURE

FACE BRICKWORK

Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m3	30	
6	One brickwork for face brick walls pointed both sides	m2	98	
7	Extra over brickwork for face brickwork in beamfilling	m2	24	
8	Fair raking and cutting	m	10	

Carried to Collection R

Section No 5
BUILDING-FD6
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	7		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	7		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement:				
12	75mm Wide reinforcement built in horizontally	m	312		
13	150mm Wide reinforcement built in horizontally	m	494		
	Turning pieces:				
14	230mm Wide turning piece to lintels, etc.	m	10		
	Galvanised wire ties etc:				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	m2	34		
	Prestressed fabricated lintels:				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	22		
	Ventillation bricks:				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	m	8		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

Bill No 3

MASONRY

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BUILDING-FD6
Bill No 3
MASONRY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO 4				
	WATERPROOFING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course:				
1	On walls	m2	97		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	43		
	FLOOR AND WALLS SEALERS				
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames	m2	27		
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Section No 5
BUILDING-FD6
Bill No 4
WATERPROOFING
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 5

BILL NO 5

ROOF COVERINGS

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Bulkheads

Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

	Carried to Collection	R	

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

PROFILED METAL SHEETING AND ACCESSORIES

Roof covering with pitch not exceeding 25 finish fixedto timber purlins (elsewhere)

1	Roof covering with pitch not exceeding 25 degrees	m2	50	

Sundries:

2	12" Thermal resistance sisalition laid on purlins	m2	50	

RAINWATER DISPOSAL

Aluzink seamless metal gutters:

3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
4	Extra over for closed ends	No	4	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
6	Extra over rainwater pipe for eaves offset	No	4	
7	Ditto, for shoe	No	2	

Carried to Collection R

Section No 5
BUILDING-FD6
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Bill No 5

ROOF COVERINGS

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BUILDING-FD6
Bill No 5
ROOF COVERINGS
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	BILL NO 6				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Descriptions				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	No	38		
2	76 x 38mm Wall plates	No	16		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	No	30		
	Sundries:				
4	Two coats creosote on sawn timbers	No	20		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	34		
6	Hurricane clips	No	40		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	No	23		
	DOORS, ETC.				
	Wrought meranti external doors hung to steel frames:				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	6		
9	40mm Framed batten door 914 x 2032mm high of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round	No	1		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 6

CARPENTRY AND JOINERY

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BUILDING-FD6
Bill No 6
CARPENTRY AND JOINERY
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 5

BILL NO 7

IRONMONGERY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

Finishes to ironmongery

Where applicable are indicated by suffixes in accordance with the following list:

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

Fixing of door locks, handles, flush bolts, etc.

Fixing of all door locks, handles, flush bolts, etc. shall be regarded as fixing and/or fitting to timber door leaves, unless specifically otherwise indicated

	Carried to Collection	R	

	CATCHES, CABIN HOOKS, ETC.				
	Approved:				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	2		
3	Indicator lockset	No	4		
	PUSH PLATES, KICK PLATES, ETC.				
	Approved:				
4	Type DPP-430-BL-SF 150 X 300 X 1,2mm Thick push plates fixed to timber door	No	1		
5	Type DKP-430-SF, 300 wide x 1,2mm Thick Kick plate fixed to timber door	No	1		
	DOOR CLOSERS				
	Approved:				
6	TS71/EN3-4 SS Standard arm door closer and non-hold open action	No	1		
	HANDLES				
	Aluminium Pull Handle				
7	Set of two, 300mm pull handles fixed back to back on doors	No	1		
	DOOR STOPS				
	Approved:				
8	38mm Diameter rubber door stop plugged	No	6		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

	Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts:				
10	32mm Grab rail 700mm long with two 206mm return ends bolted	No	1		
11	32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted	No	1		
	BATHROOM FITTINGS				
	"Kimberly-Clark" or similar approved:				
12	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	6		
	Stainless steel:				
13	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	4		
	Stainless steel:				
	SUNDRIES				
	"Kimberley-Clark"or Simlilar:				
14	Stainless steel female she-bin plugged to wall	No	6		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 7
IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Bill No 7

IRONMONGERY

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IRONMONGERY
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
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	METALWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Primer				
	All surfaces of steelwork to be painted with one coat approved factory primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained				
	Rebates of door frames				
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors				
	Striking plates for door frames				
	Unless otherwise described all striking plates to be of chromium-plated type				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls:				
1	Frame for door 813 x 2032mm high	No	4		
	1,6mm Double rebated frames suitable for one brickwalls:				
2	Frame for door 900 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	6		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

4	Window type NE 7,1022 x 654mm high including burglar bars	No	3		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2		
	Carried to Collection			R	

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BUILDING-FD6
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 8

METALWORK

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BUILDING-FD6
Bill No 8
METALWORK
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO 9				
	PLASTERING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete: :				
1	30mm Thick on floors	m2	21		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork:				
2	On pits walls	m2	43		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	21		
4	On internal textured plaster walls and floors in pit	m2	43		
	EPOXY				
5	Epoxy finish to floors	m2	21		
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Section No 5
BUILDING-FD6
Bill No 9
IN SITU FINISHES
TSHIKAMBE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount

SECTION 5

BILL NO 10

PLUMBING AND DRAINAGE (PROVISIONAL)

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles

NOTE

All prices/rates to be net, excluding Value Added Tax

SUPPLEMENTARY PREAMBLES

PVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Excavations

Prices for all excavations must include for necessary staging and for the risk of collapse of excavation side and also keeping excavations free from water

	Carried to Collection		R	

COMPACTING

Where filling is described as:

- filling in general:

  "compacted" shall mean compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes described as "under solid floors, etc.,":

  "compacted" shall mean approved backfilling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

- filling for all types of pipes where described as "under roads, paving, etc.,":

  "compacted" shall mean approved gravel back filling stabilized with 5% lime and compacted to 90% Mod. AASHTO density, unless otherwise described

Stainless steel basins, sinks, wash troughs, urinals, etc.

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be type 304 (18/8)

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Sealing of all joints

Sanitary fittings to be sealed watertight with an approved silicon sealant along all junctions with walls, tiled surfaces, vanity slabs, work tops, etc.

ENVIRO-LOO TOILET SYSTEMS

1	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only)	No	6		
2	Standard Enviro Loo Industrial 1040 including ceramic toilet bowl	No	6		
3	Supply and install heavy duty double flap toilet seat	No	6		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

	SANITARY FITTINGS				
	"Vaal Sanitaryware" vitreous china wash hand basins and pedestals:				
4	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts(product code 8448Z0).	No	5		
	WASTE UNIONS, ETC.				
	"Cobra":				
5	32mm Code 301 chrome plated basin waste union.	No	5		
	TRAPS, ETC.				
	"Vulcathene":				
6	40mm Deep seal "P" or "S" trap	No	5		
	TAPS, VALVES, ETC.				
	Brass:				
7	15mm Fullway gate valve	No	3		
	"Cobra" Watertech "Star", "Aquila" and Carina bibtaps:				
8	15mm Chrome plated code 214CA-15 "Carina" toilet bibtap	No	2		
	New Items:				
	SANITARY PLUMBING				
	uPVC soil and vent pipes:				
9	50mm Pipes	m	25		
10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
11	50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	25		
	Extra over uPVC soil and vent pipes for fittings:				
12	50mm End cap	No	1		
13	110mm Eccentric reducer	No	4		
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Section No 5
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Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

14	50mm Bend	No	12		
15	110mm Bend	No	12		
16	50mm Junction	No	4		
17	110mm Junction	No	4		
18	110mm Reducing Junction	No	3		
19	50mm Access bend	No	3		
20	110mm Access bend	No	6		
21	110mm Access bend with anti syphon horn	No	2		
	WATER SUPPLIES				
	Class 6 HDPe type IV pipes:				
22	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
	Extra over Class 10 HDPe type IV pipes for "Plasson" fittings:				
23	32mm Reducer	No	6		
24	32mm Bend	No	10		
25	32mm Threaded adaptor	No	5		
26	32mm Tee	No	7		
	(End of extras)				
	Class "O" copper pipes:				
27	15mm Pipes	m	25		
28	15mm Fittings	No	10		
	TESTING				
29	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect		Item		
	Carried to Collection			R	

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BUILDING-FD6
Bill No 10
PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Bill No 10

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO 11				
	GLAZING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	SUPPLEMENTARY PREAMBLES				
	Float glass				
	The term "float glass" is used for monolithic annealed glass				
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6.38mm Obscure safety glass:				
1	Panes not exceeding 0,1 m2	m2	5		
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Section No 5
BUILDING-FD6
Bill No 11
GLAZING
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 5				
	BILL NO 12				
	PAINTWORK				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	Paint				
	All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:				
1	On fascias and barge boards	m2	20		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel:				
2	On doors (Internal)	m2	33		
3	On doors (External)	m2	19		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel:				
4	On door frames	m2	15		
5	On gates (Measured over the full flat area of both sides)	m2	14		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

6	On gutters and down pipes	m	16		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel:				
7	On windows with burglar bars	m	6		
	Carried to Collection			R	

Section No 5
BUILDING-FD6
Bill No 12
PAINTWORK
TSHIKAMBE PRIMARY SCHOOL

Bill No 12

PAINTWORK

COLLECTION

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TSHIKAMBE PRIMARY SCHOOL

Section No 5

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Section No 5
BUILDING-FD6
TSHIKAMBE PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	SECTION 6				
	BILL NO 1				
	EXTERNAL WORKS				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles				
	NOTE				
	All prices/rates to be net, excluding Value Added Tax				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	BUDGETARY ALLOWANCE				
	The items described hereunder cover work which is not fully defined at tender stage and is intended to be executed by the contractor at rates to be agreed with the contractor in accordance with clause B1.9 of the Preliminaries at the time the work is defined. The amounts shown shall be used as directed by the Representative/Agent and shall be deducted in whole or in part if not required.				
	STORMWATER DRAINAGE				
	Site clearance:				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	100		
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
2	Excavations	m3	20		
	Extra over trench and hole excavation in earth for excavation, in:				
3	Soft rock	m3	5		
	Carried to Collection			R	

Section No 6
EXTERNAL WORKS
Bill No 1
EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

4	Hard rock	m3	4		
	Extra over all excavations for carting away:				
5	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	5		
	CONCRETE				
	Movement joints:				
6	Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertical in position between concrete stormwater channel and brick walls or concrete aprons, etc including raking out top section 10mm deep and filling with bituminous compound	m	50		
	Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days:				
7	V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, with and including one layer of ref. 193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	100		
8	Extra for fair open end	m	25		
9	Extra for fair stopped end	m	25		
10	Extra for angle intersection	m	25		
	PAVED WALKWAY				
	Site clearance:				
11	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	600		
12	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	600		
	Open face excavation in earth over sloping site				
13	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavation exceeding 2m deep	m3	30		
	Carried to Collection			R	

Section No 6
EXTERNAL WORKS
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EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

	Earth filling supplied by the contractor under parking areas, roadways, etc:				
14	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m	90		
	Compaction of surfaces:				
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	600		
	Prescribed density tests on filling:				
16	Modified AASHTO Density test	No	4		
	Weedkiller (active ingredients metalaclor 102,8 g/l,) terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m2				
17	Under paving etc	m2	600		
	60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:				
18	Paving to walkways areas	m2	600		
19	Semi mountable kerb (Fig 7); (280x180x140)	m	100		
20	25Mpa/19mm unreinforced concrete edge beam	m3	3		
	FENCING				
	Galvanised security fence around GR blocks with bitumen dipped steel standards and bitumen-aluminium painted (two coats) steel pipe posts, stays, gates, etc including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground:				
21	Security fence 1.8m high vertically of Y section standards with 4 strands of 6mm straining wire tied to standards, posts and eye bolts and the vertical height covered with 50 x 50 x 3mm welded wire mesh tied at 450mm centres to each straining wire	m	100		
22	Extra over for 32mm diameter inclined stay 1.8m long with one end bolted to post, including concrete base	No	10		
	Carried to Collection			R	

Section No 6
EXTERNAL WORKS
Bill No 1
EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

23	Extra over for 50mm diameter intermediate post 2.4m long vertically, including concrete base	No	10		
24	Extra over for 100mm diameter straining or gate post 2.4m long vertically, including concrete base	No	10		
25	Gate of 32mm diameter framing, 900 x 1800mm high vertically with one diagonal brace, the vertical section covered with 50 x 50 x 3mm diamond wire mesh and the overhang with 4 strands of barbed wire, including hinges, heavy duty lockable barrel bolt and 75mm brass five-pin tumbler padlock	No	1		
	Welded steel palisade security fencing with posts encased in concrete footings:				
26	Steel palisade fence with panels 1.8x3m (40x40x200mm) from to of paling and 300 from bottom of paling. Palings devil fork 21 paling per panel, 30x30x2mm steel angle iron paling 1.8m high. Post 76x76x2mm Steel tubing with closing pyramid caps on top, 2.4m high and 600mm planted into concrete footing to Engineers design	m	419		
27	Steel Palisade sliding Gate, 5m wide x1.8 m high	No	1		
28	Pedestrian gate, 1.5m wide x 1.8m high	No	1		
	WATER TANKS AND STANDS				
	EXCAVATION, FILLING, ETC.				
	Excavation in earth not exceeding 2m deep				
29	Surface trenches	m3	4		
	Extra over trench and hole excavation in earth for excavation, in:				
30	Soft rock	m3	1		
31	Hard rock	m3	1		
	Extra over all excavations for carting away:				
32	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	3		
	Risk of collapse of excavations:				
33	Sides of trench and hole excavations not exceeding 1,5m deep	m2	3		
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Section No 6
EXTERNAL WORKS
Bill No 1
EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

	Keeping excavations free of water:				
34	Keeping excavations free of water		Item		
	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:				
35	In backfilling to trenches, etc.	m3	3		
	Compaction of surfaces:				
36	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod **AASHTO** density	m2	4		
	Soil insecticide:				
37	To bottoms and sides of trenches, etc.	m2	32		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE, ETC				
	20MPa/19mm Concrete, in:				
38	In strip footings	m3	10		
	25MPa/19mm Concrete, in:				
39	Tank base	m3			
	Sundries:				
40	Cast end of holding down bolt into top of concrete	No	52		
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
41	Edges, risers, etc. not exceeding 300mm wide or high	m	16		
	TEST BLOCKS				
42	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	8		
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Section No 6
EXTERNAL WORKS
Bill No 1
EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

	REINFORCEMENT (PROVISIONAL)				
	Mild and high yield deformed type II (Y) steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports:				
43	Mild steel bar reinforcement not exceeding 8 mm diameter	t	1		
44	High yield deformed bar reinforcement exceeding 8 mm but not exceeding 12mm diameter (excluding 10mm diameter bars)	t	1		
	HIGH RISE WATER TANK				
	GALVANISED MILD STEEL WATER SUPPLY PIPES				
45	32mm Galvanised mild steel pipe and fixing to tank stand	m	38		
	Extra over galvanised mild steel water supply pipes for fittings:				
46	32mm Bends	No	10		
47	32mm Tee	No	10		
48	32mm Straight connector	No	6		
49	32mm Union connector	No	4		
50	32 to 20mm reducer	No	4		
	15mm Wall thickness "Thermaflex" or similar 15mm Wall thickness "Thermaflex" or similar 0,045W/m.K) closed cell preformed extruded LDPE foam sleeve type pipe insulation with quick seal zip secured to pipes in accordance with the manufacturers instructions and including 0,5mm thick galvanised mild steel cladding around insulation				
51	Insulation to 32mm pipe and couplings	m	38		
52	Extra for wrapping around 32mm bend	m	8		
	HDPE Class 6 water pipes:				
53	32mm Pipes laid in and including trenches 900mm deep	m	500		
	Extra over galvanised mild steel water supply pipes for fittings:				
54	20mm Fittings	No	15		
55	25mm Fittings	No	20		
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EXTERNAL WORKS
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EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

56	32mm Nipple	No	30		
57	32mm Bend	No	15		
58	32mm Tee	No	10		
59	32mm Reducing Tee	No	10		
	Brass Fittings:				
60	32mm Stopcock with joint to steel as "Cobra 121".	No	5		
61	40mm Non-return valve with joints to steel	No	6		
	Cast Brass:				
62	32mm Fullway gate valve as Cobra Watertech 1001/125 with joints to mild steel	No	4		
63	Stewards & Lloyds "No 3" Double action hand pump with joints to mild steel piping and fixing to brick wall with purpose made galvanised mild steel bracket bolted through 230mm thick wall	No	2		
	Valve box chambers, etc.:				
64	Type 11B cast iron stopcock box hinged cover and frame, including 220 x 220 x 600mm deep brick chamber below, finished 50mm above ground level	No	2		
	WATER STORAGE TANKS AND STANDS				
	WATER TANKS				
	Note: Rainwater tanks shall be without welded seams and of one piece moulded construction:				
65	5 000 Litre plastic seamless water storage tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete	No	1		
66	10 000 Litre plastic seamless water storage tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete	No	2		
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Section No 6
EXTERNAL WORKS
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EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

67	Ditto including hoisting and fixing to tankstand (elsewhere) approximately 4 m above ground level	No	8		
68	Hole through top of tank lid for 100 mm diameter pipe	No	2		
	The following in One (1 No)Tank Stands each size 1500 x 1500 x 4000 mm high overall formed of hot dip galvanised angle section legs, base plates, braces etc., including all welding, holes, bolts, nuts, washers, rivets, bolting, riveting, grinding smooth and fixing in position:				
69	600 x 600 x 650mm High 25MPa/19mm stone concrete base including all necessary excavations, formwork, backfilling, etc	No	8		
70	16mm Diameter mild steel L-shaped holding down bolt 500mm girth with one end threaded and the other end cast into top of concrete base (elsewhere measured)	No	32		
71	Angle section legs, rails, braces, etc.	t	1		
72	20mm Diameter round bar rungs 360mm long	No	48		
73	Bolts, nuts, washers, etc.	kg	48		
	Creosote treated sawn softwood:				
74	25 x 100mm Edge strip 1 700mm long	No	8		
75	76 x 114mm Bearers 1700mm long	No	24		
	TESTING				
76	Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's expense		Item		
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EXTERNAL WORKS
Bill No 1
EXTERNAL WORKS
TSHIKAMBE PRIMARY SCHOOL

Bill No 1

EXTERNAL WORKS

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EXTERNAL WORKS
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SECTION 7

BILL NO 1

SITE SERVICES

PREAMBLES

For preambles see "Specification of materials and methods to be used - PW 371"

SUPPLEMENTARY PREAMBLES

Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 3

The Contractor is referred to Section No. 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described

Filling (General)

Back filling described as:

- **"filling in pipe trenches, etc."**, all backfilling shall be done with approved backfilling compacted to 93%Mod. AASHTO density, unless otherwise described

uPVC pipes and fittings

Soil, waste and vent pipes and fittings shall be solvent weld jointed

uPVC pressure pipes and fittings

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Fixing of pipes

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

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Section No 7
SITE SERVICES
Bill No 1
SITE SERVICES
TSHIKAMBE PRIMARY SCHOOL

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

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

SANS 1200 L	:	Medium-pressure pipelines
SANS 1200 LD	:	Sewers
SANS 1200 LE	:	Stormwater drainage

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

SANS 1200 DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200

SANS 1200 LB : Bedding (Pipes).

Unless otherwise described bedding of rigid pipes shall be class B bedding

Carried to Collection R

	Holes for pipes				
	Holes for pipes, cutting and fitting around pipes, the making good thereof, etc. in brick and/or concrete sidewalls of catch pits, manholes, valve chambers, etc. shall be deemed to be included in descriptions of pipework				
	Tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained				
	Mixing of concrete				
	No hand mixing of concrete will be allowed on site				
	Structural steel				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
	All structural steel to be painted with one coat red oxide metal primer before delivery to site				
	SOIL AND WASTE DRAINS				
1	Search for, locate, excavate in earth exceeding 1m and not exceeding 2m deep, expose existing sewer line and construct new manhole 1000mm diameter, including all necessary fittings, etc.	No	1		
	PVC pipes:				
2	110mm pipe and fixing vertically or raking in ramps (no excavation)	m	9		
3	110mm Diameter drain pipes laid in earth, including excavations not exceeding 1m deep, bedding, filling in and compacted	m	50		
	Extra over PVC pipes for fittings:				
4	110mm Bend	No	4		
5	110mm Junction	No	1		
6	110mm Access junction	No	4		
7	110mm Access pipe	No	3		
	(End of extras)				
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	Precast concrete circular manholes (covers elsewhere):				
8	Manhole 1000mm diameter and exceeding 1000mm and not exceeding 1250mm deep internally, including all excavations, backfilling and compaction	No	2		
	Covers, etc.:				
9	1000mm Diameter 150mm thick precast concrete removable cover	No	2		
10	Lifting key for manhole cover	No	2		
	Sundries:				
11	Extra over excavations in earth "for pipe trenches, etc". for excavation in "soft rock"	m3	3		
12	Extra over excavations in earth "for pipe trenches, etc". for excavation in "hard rock"	m3	2		
13	Extra over excavation "for drain trenches, manholes, etc." for carting away excessive or unsuitable excavated material from site	m3	5		
14	20MPa/19mm Mass concrete encasing to 110mm diameter horizontal pipes	m3	2		
15	300 x 300 x 50mm Precast concrete inspection eye marker block and setting in position flush with adjacent surfaces	No	11		
16	100mm Cast iron cleaning eye jointed to 110mm PVC drain pipe, including 350 x 350 x 75mm thick in-situ 15MPa/19mm mass concrete surround, the whole finished smooth with wooden float on all exposed faces with exposed angles rounded and coated with two coats approved bituminous preservative solution, including all necessary excavations, formwork, backfilling, etc	No	5		
	The following in septic tank:				
17	Clear site by digging up and removing rubbish, debris, vegetation, hedges, srubs and trees not exceding 200mm girth, bush, etc	m3	33		
18	Excavate in earth not exceeding 2m deep below natural ground level, including trimming sides, levelling and compacting bottoms and dsipasoal of excavated material	m3	85		
19	Ditto, but exceedign 2m and not exceeeding 4m deep	m3	8		
20	Allow for the risk of collapse of sides of excavations not exceeding 1,5m deep	m2	57		
21	Ditto, but exceeding 1,5m deep	m2	16		
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22	Extra over all excavations for carting away surplus material from excavations and / or stockpile on site to be located by the contractor	m3	76		
23	Extra over excavations in earth for trenches and holes for excavation in soft rocks	m3	1		
24	Extra over excavations in earth for trenches and holes for excavation in hard rocks	m3	2		
25	Allow for keeeping all excavations entirely free from water and mud		Item		
26	1:8 Soilcrete formed of material from excavations, spread, levelled, watred and compacted to 93% Mod AASHTO density inlayers not exceeding 150mm thick in voids between excavated sides and outside walls of septic tank	m3	10		
27	Ditto, but formed of approved gravel filling supplied by the Contractor	m3	22		
28	Compaction of disturbed bottom of excavated hole, including scarifying for a depth of 150mm and compaction to 93% Mod AASHTO density	m2	36		
29	Reinforced concrete with a coarse aggegate of 19mm and a minimum compressive of 25Mpa at 28 days in footings to floors cast against excavated surfaces, stepped and levelled	m3	4		
30	In roof slabs	m3	4		
31	Formwork to soffit of slabs	m2	21		
32	Formwork to edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
33	Mesh reinforcement with mesh reference number 395 laid in surface beds, etc. With 300mm wide side and end laps (measured net)	m2	21		
34	One brick wall	m2	68		
35	Brick reinforcement 150mm wide built walls with sufficient laps at end joints, angles and intercections (measured net)	m	244		
36	Plastering on walls	m2	76		
37	Prepare and apply two coats of bitumen on internal plastered walls	m2	76		
38	110mm Diameter drain pipes, fixed raking or vertically in ramps to cleaning eyes, etc. (No excavations)	m	4		
39	Extra over last for 110mm socket	No	8		
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40	100mm Cast iron cleaning eye fixed to 110mm PVC drain pipes, including 350 x 350 x 75mm thick in-situ 15MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces wiht exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	4		
	(End of septic tank)				
	The following in manhole to septic tank:				
41	20MPa/19mm Mass concrete in bottom	m3	1		
42	20MPa/19mm In-situ concrete cover slab 1060 x 1040 x 150mm thick overall, including casting cast iron frame of cover (cast iron cover and frame elsewhere) in exact position in top of cover slab with all exposed surfaces finished smooth with wooden float and with all exposed top edges rounded, including all necessary formwork, etc.	No	2		
43	Formwork to edges, risers, ends and reveals not exceeding 300mm high or wide	m	8		
44	One-brick walls of approved NFX bricks in class II mortar	m2	6		
45	One coat cement plaster steel trowelle dto vetical faces of brick walls internally	m2	4		
46	600 x 600mm "Saint-Gobain" Product Type 9A single seal cast iron manhole cover and frame (with a mass not less than 63kg) embedded in cement mortar in rebate of cover slab, the whole coated with two coats approved bituminous preservative	No	2		
	(End of manhole to septic tank)				
	The following in french drains:				
47	Excavate in earth not exceeding 2m deep below natural ground level, including trimming sides, levelling and compacting bottoms and dsipasoal of excavated material	m3	45		
48	Ditto, but exceedign 2m and not exceeeding 4m deep	m3	6		
49	Allow for the risk of collapse of sides of excavations not exceeding 1,5m deep	m2	70		
50	Ditto, but exceeding 1,5m deep	m2	45		
51	Filling obtained from the excavations compacted to 90% Mod AASHTO density in layers not exceeding 150mm thick in backfilling to top of french drain	m3	37		
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52	Approved graded boulder and stone filling with boulders approximately 300mm diameter at bottom to stone approximately 50mm diameter at top	m3	16		
53	"Bidum U14" or other approved geofabric lining around stone filling with 150mm and 300mm side and end laps respectively	m2	75		
54	0,6mm Thick galvanised corrugated sheet covering laid over boulder filling	m2	25		
55	One layer of 375 micron USB greeen medium density waterproof sheeting on corrugated sheet iron covering under earth filling	m2	25		
56	110mm Diameter drain pipes, fixed raking or vertically in ramps to cleaning eyes, etc. (No excavations)	m	4		
57	110mm Perforated PVC pipes laid in graded boulder filling	m	20		
58	Extra over last two items for 110mm stop end	No	2		
59	Ditto, but for bend	No	2		
60	Ditto, but for junction	No	2		
61	100mm Cast iron cleaning eye fixed to 110mm PVC drain pipes, including 350 x 350 x 75mm thic in-situ 15MPa/19mm concrete surround, the whole finished smooth on all exposed faces with angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	2		
	(End of french drains)				
	BOREHOLE DRILLING AND EQUIPPING				
	BOREHOLE DRILLING AND DEVELOPMENT				
	Establishment, plant set-up, inter-borehole moves and de-establishment:				
62	Site Establishment		Item		
63	Mobilisation and set up of plant to/at first borehole		Item		
64	De-establishment from Site, of the given drilling batch		Item		
	Drilling: unconsolidated and consolidated sediments and igneous and metamorphic rocks:				
65	Rotary air percussion: 165mm diameter	m	195.00		
66	Rotary air percussion: 254mm diameter	m	24.00		
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	Odex drilling, including supply, delivery and installation of at least 6 mm sidewall Odex casing:				
67	165mm diameter	m	195.00		
68	254mm diameter	m	24.00		
	Casing, including supply, delivery and installation, but not including reaming:				
69	Steel casing (plain) of 165 mm (state wall thickness here as 3 mm)	m	12.00		
70	Steel casing (slotted) of 165 mm (state wall thickness here as 4 mm)	m	6.00		
	Casing shoes:				
71	To fit 165 mm diameter steel casing	m	12.00		
	Reaming of boreholes:				
72	152 / 165 mm to 203 / 219 mm diameter	m	1.00		
73	Recovery of steel casing		Item		
74	Formation stabiliser, including supply, delivery and installation		Item		
75	Concrete collar, complete per borehole	No	1.00		
76	Normal Sanitary seal, complete per borehole		Item		
77	Bentonite sanitary seal		Item		
78	Borehole disinfection, complete per borehole	No	1.00		
79	Borehole protection, complete per borehole	No	1.00		
80	Borehole marking, complete per borehole	No	2.00		
81	Site finishing, complete per borehole	No	2.00		
82	Data recording and reporting, complete per borehole	No	2.00		
83	Gravel Pack	No	1		
84	Standing time rate	Hrs	2.00		
85	Borehole development	Hrs	4.00		
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	Pump design:				
86	Pump design to be done by a qualified person. Deliverables to include a design report showing the pump curves		Item		
	Electrical pump:				
87	Supply and complete installation of submersible pump including control panel		Item		
	BOREHOLE TESTING (YIELD AND QUALITY TESTING)				
	Travelling:				
88	Initial Establishment (First Establishment)		Item		
89	De-Establishment		Item		
	Calibration Test:				
90	Multi- Rate Step tests (Less than 10l/s)	Hrs	4.00		
91	Constant Discharge test (Less than 10l/s)	Hrs	24.00		
92	Constant Discharge test (Less than 10l/s)	Hrs	24.00		
	Installation of test pump equipment:				
93	When testing less than 10 l/s	No	1.00		
	Removal and Reinstallation of pump:				
94	Monotoring	No	1.00		
	Steel borehole cover (sealing of boreholes):				
95	Per borehole	No	1.00		
	Borehole marking:				
96	Per borehole	No	1.00		
	Site cleaning/ finishing:				
97	Per borehole	No	1.00		
	Reporting and data recording:				
98	Per borehole	No	1.00		
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99	Sampling and water quality testing	No	1.00		
	GEOHYDROLOGICAL SERVICES				
	Geohydrological services:				
100	Site Assesment		Item		
101	Desk Study		Item		
102	Sitting		Item		
103	Drilling Supervision		Item		
104	Testing Supervision		Item		
105	Reporting		Item		
	STORAGE INSTALLATION				
	Supply deliver and install:				
106	Complete installation of 10 000 Litre polyethylene water tank (Jo Jo make or equivalent). (2980mm high x 2 200mm diameter). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad). (2 Strands/Anchor)	No	1.00		
	Fabricated steel tank stand:				
107	Completion installation of fabricated steel tank stand with 6m high legs (incl. excavations and concrete footings)	No	1.00		
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Bill No 1

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COLLECTION

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	-218-		
	-219-		
	-220-		
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	-222-		
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	-225-		
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Item No		Quantity	Rate	Amount

SECTION 8

PROVISIONAL SUMS

NOTE

All prices/rates to be net, excluding Value Added Tax

CASH DISCOUNT

No cash discount. All provisional sums are "NET"

GENERAL

The following provisional sums are for work to be executed under separate nominated sub-contracts by firms of Specialists

All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable

FUEL, POWER AND WATER FOR COMMISSIONING PLANT

The cost of water, power and fuel for the commissioning of plant shall be borne by the nominated sub-contractor appointed for the relevant nominated sub-contract works in terms of the conditions under which they have/are contract for the specialist work involved

PROFIT

Provisional sums are net and do not include builder's discount. The tenderer may allow next to "Profit" items for any profit he might consider necessary

ATTENDANCE

The Tenderer may allow next to "Attendance" items for any attendance he might consider necessary and/or for the recovery of any expenses incurred by him for providing attendance to nominated sub-contractors, i.e. by means of the installation of the necessary water/power meters, etc.

The tenderer is also referred to Clause A20 in the "Preliminaries" section for the definitions and adjustment of "Attendance"

	Carried to Collection	R	

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	ALL PROVISIONAL WORKS ARE SUBJECTED TO RE-MEASUREMENT THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE				
	DEMOLITION OF EXISTING TOILET STRUCTURES				
1	Allow for provisional Amount of R 78 000.00 (Seventy Eight Thousand Rand) NET for demolition of dilapidated toilet structures	Item		78,000	00
	REFURBISHMENT OF EXISTING TOILETS				
2	Allow for provisional Amount of R 40 000.00 (Forty Thousand Rand) for refurbishment of existing waterborne	Item		40,000	00
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Bill No 1

PROVISIONAL SUMS

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FINAL SUMMARY

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2	BUILDING-SD5	-94-		
3	BUILDING-GRD4	-132-		
4	BUILDING-MD4	-170-		
5	BUILDING-FD6	-206-		
6	EXTERNAL WORKS	-215-		
7	SITE SERVICES	-226-		
8	PROVISIONAL SUMS	-229-		
	Sub-Total		R	
	ADD VAT @ 15%		R	
	Carried to Bid Form		R	

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