

Item No		Quantity	Amount
	<u>SECTION 1</u> <u>PRELIMINARIES</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> <u>Meaning of terms "Tender" and "Tenderer"</u> Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" <u>Preliminaries and agreement</u> The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement, Edition 4.1, Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "NOT APPLICABLE" <u>Pricing of preliminaries</u> Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories 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 <u>General</u> 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**"

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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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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 <i>mutatis mutandi</i> in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the 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 Carried to Collection Section No 1 PRELIMINARIES Bill No 1 PRELIMINARIES RALSON TSHIANNE SECONDARY SCHOOL		
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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 Carried to Collection Section No 1 PRELIMINARIES Bill No 1 PRELIMINARIES RALSON TSHIANNE SECONDARY SCHOOL		R	

- 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

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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

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16 Access to the works (clause 16)

Fixed

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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**"

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[illegible]

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	
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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"

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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**"

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33 Recovery of expense and loss (clause 33)

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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

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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

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[illegible]

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 [15.3]	Period for the commencement of the works after the contractor takes possession of the site: <i>The contractor shall forthwith deliver his plant and material to the site and shall commence with the works in due diligence</i>		
42.2.7	The date for practical completion and the penalty per calendar day for the works as a whole : Date: [24.3.1] <i>Within twelve (12) calendar months, exclusive of builders' holidays, after the date of site handover</i> Penalty: [30.1] <i>0,05% of the tendered amount, inclusive of value added tax</i>		
42.2.8	The date for practical completion and the penalty per calendar day for the works in sections : Date: [24.3.1] <i>Not applicable</i> Penalty: [28.1] <i>Not applicable</i>		
42.2.9	The law applicable to this agreement shall be that of: [1.2] <i>Republic of South Africa</i>		
42.3 INSURANCES			
42.3.1 [10.1#, 10.2#, 12.1#]	Contract works insurance: To be effected by: <i>Contractor</i> For the sum of: <i>Tendered amount plus 20%</i> With a deductible of: <i>Not exceeding 5% of each and every claim</i>		
42.3.2	Supplementary insurance is required:	No	
42.3.3 [11.1#, 12.1#]	Public liability insurance: To be effected by: <i>Contractor</i> For the sum of: <i>R 10 000 000-00</i> With a deductible of: <i>Not exceeding 5% of each and every claim</i>		
42.3.4 [11.2#, 12.1#]	Support insurance to be effected by the employer: <i>Not applicable</i>		
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42.4 DOCUMENTS

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

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

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** will 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 Details of changes made to the provision of JBCC
[3.10] 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:

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

*(*Delete the not elected option):*

- **Alternative A:**

***Yes/*No**

- **Alternative B:**

***Yes/*No**

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

*(*Delete the not elected option)*

- **Alternative A:**

***Yes/*No**

- **Alternative B:**

***Yes/*No**

42.5.6 Not applicable/No clause
[3.1#]

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

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

From:

_____ to _____

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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

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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:

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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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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

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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

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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

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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

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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

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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) pinning board 2,40 x 1,20m high, one (1) writing board 2,40 x 1,20m high and a set of ten (10) aluminium "Ozafite" drawing hangers complete with stand. The office shall be kept clean and fit for use at all times

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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

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Not applicable

(*Delete the not elected option)

- Option A (prorated):

- Option B (calculated):

- Option A (three categories):

- Option B (detailed breakdown):

Details (to be provided):

[illegible]

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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

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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

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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

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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 1</u>			
	<u>EARTHWORKS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	133	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	133	
	<u>Soil poisoning and insecticide</u>			
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists			
	<u>EXCAVATION, FILLING, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	28	
4	Pit	m3	35	
5	For aprons thickening	m3	7	
	<u>Extra over trench and hole excavation in earth for excavation, in:</u>			
6	Soft rock	m3	14	
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7	Hard rock	m3	6
	<u>Extra over all excavations for carting away:</u>		
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	23
	<u>Risk of collapse of excavations:</u>		
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	94
	<u>Keeping excavations free of water:</u>		
10	Keeping excavations free of water		Item
	<u>Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
11	In backfilling to trenches, etc.	m3	25
12	Under floors, steps, pavings, etc.	m3	15
	<u>Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	Under floors, steps, pavings, etc.	m3	18
	<u>Compaction of surfaces:</u>		
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	61
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	94
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	367
	<u>Prescribed density tests on filling:</u>		
17	Modified AASHTO Density test	No	4
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Section No 2 BUILDING-SD6 Bill No 1 EARTHWORKS (PROVISIONAL) RALSON TSHIANNE SECONDARY SCHOOL			

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SOIL POISONING**Soil insecticide:**

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	61
19	To bottom of concrete aprons	m2	94
20	To bottoms and sides of trenches, etc.	m2	367

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RALSON TSHIANNE SECONDARY SCHOOL

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EARTHWORKS (PROVISIONAL)

RALSON TSHIANNE SECONDARY SCHOOL

REINFORCED CONCRETE, ETC**25MPa/19mm Concrete, in:**

6	Slabs	m3	9
---	-------	----	---

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	55
---	-----------------------------	----	----

Finishing top surfaces of concrete smooth with a steel float:

9	Surface beds, slabs, etc.	m2	61
---	---------------------------	----	----

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	62
----	--	----	----

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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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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	24.00
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	12.00
---	---	----	-------

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	32
6	One brickwork for face brick walls pointed both sides	m2	144
7	Extra over brickwork for face brickwork in beamfilling	m2	36
8	Fair raking and cutting	m	33

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BUILDING-SD6
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RALSON TSHIANNE SECONDARY SCHOOL

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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	24
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	18
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	18

BRICKWORK SUNDRIES

Brickwork reinforcement:

12	75mm Wide reinforcement built in horizontally	m	756
13	150mm Wide reinforcement built in horizontally	m	754

Turning pieces:

14	230mm Wide turning piece to lintels, etc.	m	41
----	---	---	----

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	41
----	---	---	----

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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MASONRY

RALSON TSHIANNE SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	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			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<u>Bulkheads</u>			
	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	
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	BUILDING-SD6			
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	ROOF COVERINGS			
	RALSON TSHIANNE SECONDARY 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 fixed to timber purlins (elsewhere)**

1	Roof covering with pitch not exceeding 25 degrees	m2	102
---	---	----	-----

Sundries:

2	12" Thermal resistance insulation laid on purlins	m2	102
---	---	----	-----

RAINWATER DISPOSAL**Aluzink seamless metal gutters:**

3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	17
---	--	---	----

4	Extra over for closed ends	No	4
---	----------------------------	----	---

5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	8
---	---	---	---

6	Extra over rainwater pipe for eaves offset	No	4
---	--	----	---

7	Ditto, for shoe	No	3
---	-----------------	----	---

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BUILDING-SD6

Bill No 5

ROOF COVERINGS

RALSON TSHIANNE SECONDARY SCHOOL

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Bill No 5

ROOF COVERINGS

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Bill No 5

ROOF COVERINGS

RALSON TSHIANNE SECONDARY SCHOOL

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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	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			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood:</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	No	82	
2	76 x 38mm Wall plates	No	16	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	No	98	
	<u>Sundries:</u>			
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	
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	BUILDING-SD6			
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	CARPENTRY AND JOINERY			
	RALSON TSHIANNE SECONDARY SCHOOL			

EAVES, VERGES, ETC.**Pressed fibre-cement:**

- | | | | |
|---|--|----|----|
| 7 | 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips | No | 29 |
|---|--|----|----|

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 |

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Bill No 6
CARPENTRY AND JOINERY
RALSON TSHIANNE SECONDARY SCHOOL

Bill No 6

CARPENTRY AND JOINERY

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BUILDING-SD6

Bill No 6

CARPENTRY AND JOINERY

RALSON TSHIANNE SECONDARY SCHOOL

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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 |
|---|--|----|---|

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IRONMONGERY
RALSON TSHIANNE SECONDARY 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
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Stainless steel:

13	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	4
----	--	----	---

SUNDRIES

"Kimberley-Clark" or Similar:

14	Stainless steel female she-bin plugged to wall	No	4
----	--	----	---

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IRONMONGERY
RALSON TSHIANNE SECONDARY SCHOOL

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IRONMONGERY

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BUILDING-SD6

Bill No 7

IRONMONGERY

RALSON TSHIANNE SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 8</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Primer</u>			
	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			
	<u>Rebates of door frames</u>			
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors			
	<u>Striking plates for door frames</u>			
	Unless otherwise described all striking plates to be of chromium-plated type			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls:</u>			
1	Frame for door 813 x 2032mm high	No	4	
	<u>1,6mm Double rebated frames suitable for one brickwalls:</u>			
2	Frame for door 900 x 2032mm high	No	4	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	9	
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	METALWORK			
	RALSON TSHIANNE SECONDARY SCHOOL			

Bill No 8

METALWORK

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BUILDING-SD6

Bill No 8

METALWORK

RALSON TSHIANNE SECONDARY SCHOOL

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

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PLUMBING AND DRAINAGE (PROVISIONAL)
RALSON TSHIANNE SECONDARY SCHOOL

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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	3

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
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"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

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PLUMBING AND DRAINAGE (PROVISIONAL)
RALSON TSHIANNE SECONDARY SCHOOL

"Cobra" Watertech "Star", "Aquila" and Carina bibtaps:

14	15mm Chrome plated code 214CA-15 "Carina" toilet bibtap	No	3
----	---	----	---

New Items:

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Section No 2
BUILDING-SD6
Bill No 10
PLUMBING AND DRAINAGE (PROVISIONAL)
RALSON TSHIANNE SECONDARY 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**

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Bill No 10
PLUMBING AND DRAINAGE (PROVISIONAL)
RALSON TSHIANNE SECONDARY 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
----	--	------

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Bill No 10
PLUMBING AND DRAINAGE (PROVISIONAL)
RALSON TSHIANNE SECONDARY SCHOOL

Bill No 10

PLUMBING AND DRAINAGE (PROVISIONAL)

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PLUMBING AND DRAINAGE (PROVISIONAL)

RALSON TSHIANNE SECONDARY SCHOOL

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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO 11</u> <u>GLAZING</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles <u>SUPPLEMENTARY PREAMBLES</u> <u>Float glass</u> The term "float glass" is used for monolithic annealed glass <u>Laminated glass</u> 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 <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> <u>6.38mm Obscure safety glass:</u>			
1	Panes not exceeding 0,1 m2	m2	6	
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PAINTWORK

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PAINTWORK

RALSON TSHIANNE SECONDARY SCHOOL

SECTION SUMMARY - BUILDING-SD6

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	<u>SECTION 3</u>			
	<u>BILL NO 1</u>			
	<u>EARTHWORKS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
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	
	<u>Soil poisoning and insecticide</u>			
	All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists			
	<u>EXCAVATION, FILLING, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	13	
4	Pit	m3	27	
5	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavation in earth for excavation, in:</u>			
6	Soft rock	m3	7	
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	Section No 3			
	BUILDING-FD6			
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	EARTHWORKS			
	RALSON TSHIANNE SECONDARY SCHOOL			

7	Hard rock	m3	3
	<u>Extra over all excavations for carting away:</u>		
8	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	42
	<u>Risk of collapse of excavations:</u>		
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	54
	<u>Keeping excavations free of water:</u>		
10	Keeping excavations free of water		Item
	<u>Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
11	In backfilling to trenches, etc.	m3	6
12	Under floors, steps, pavings, etc.	m3	7
	<u>Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	Under floors, steps, pavings, etc.	m3	10
	<u>Compaction of surfaces:</u>		
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
	<u>Prescribed density tests on filling:</u>		
17	Modified AASHTO Density test	No	4
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Section No 3 BUILDING-FD6 Bill No 1 EARTHWORKS RALSON TSHIANNE SECONDARY SCHOOL			

R

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 concrete aprons	m2	46
20	To bottoms and sides of trenches, etc.	m2	78

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BUILDING-FD6
Bill No 1
EARTHWORKS
RALSON TSHIANNE SECONDARY SCHOOL

Bill No 1

EARTHWORKS

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BUILDING-FD6

Bill No 1

EARTHWORKS

RALSON TSHIANNE SECONDARY 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
----	--	----	----

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BUILDING-FD6
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CONCRETE, FORMWORK AND REINFORCEMENT
RALSON TSHIANNE SECONDARY SCHOOL

Bill No 2

CONCRETE, FORMWORK AND REINFORCEMENT

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BUILDING-FD6

Bill No 2

CONCRETE, FORMWORK AND REINFORCEMENT

RALSON TSHIANNE SECONDARY SCHOOL

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

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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
----	---	---	---

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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	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			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<u>Bulkheads</u>			
	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			
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	ROOF COVERINGS			
	RALSON TSHIANNE SECONDARY 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 fixed to timber purlins (elsewhere)**

1	Roof covering with pitch not exceeding 25 degrees	m2	50
---	---	----	----

Sundries:

2	12" Thermal resistance insulation 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
---	-----------------	----	---

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ROOF COVERINGS

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ROOF COVERINGS

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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	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			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood:</u>			
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	
	<u>Sundries:</u>			
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	
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	RALSON TSHIANNE SECONDARY 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 | 2 |

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RALSON TSHIANNE SECONDARY SCHOOL

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

RALSON TSHIANNE SECONDARY SCHOOL

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 | 5 |
|---|--|----|---|

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 |
|---|--|----|---|

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RALSON TSHIANNE SECONDARY 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	5
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Stainless steel:

13	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	2
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Stainless steel:

SUNDRIES

"Kimberley-Clark" or Similar:

14	Stainless steel female she-bin plugged to wall	No	6
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RALSON TSHIANNE SECONDARY SCHOOL

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IRONMONGERY

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	<u>SECTION 3</u>			
	<u>BILL NO 8</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Primer</u>			
	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			
	<u>Rebates of door frames</u>			
	Frames are, unless otherwise described, double rebated and suitable for 40mm thick doors			
	<u>Striking plates for door frames</u>			
	Unless otherwise described all striking plates to be of chromium-plated type			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls:</u>			
1	Frame for door 813 x 2032mm high	No	4	
	<u>1,6mm Double rebated frames suitable for one brickwalls:</u>			
2	Frame for door 900 x 2032mm high	No	2	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	5	
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Bill No 8

METALWORK

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BUILDING-FD6

Bill No 8

METALWORK

RALSON TSHIANNE SECONDARY SCHOOL

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

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PLUMBING AND DRAINAGE
RALSON TSHIANNE SECONDARY SCHOOL

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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
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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
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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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PLUMBING AND DRAINAGE
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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	
<u>WATER SUPPLIES</u>				
<u>Class 6 HDPe type IV pipes:</u>				
22	32mm Pipes laid in and including trenches not exceeding 1m deep	m	50	
<u>Extra over Class 10 HDPe type IV pipes for "Plasson" fittings:</u>				
23	32mm Reducer	No	6	
24	32mm Bend	No	10	
25	32mm Threaded adaptor	No	5	
26	32mm Tee	No	7	
<u>(End of extras)</u>				
<u>Class "O" copper pipes:</u>				
27	15mm Pipes	m	25	
28	15mm Fittings	No	10	
<u>TESTING</u>				
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
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1	Panes not exceeding 0,1 m2	m2	6	
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PAINTWORK

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PAINTWORK

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SECTION SUMMARY - BUILDING-FD6

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	<u>SECTION 4</u>			
	<u>BILL NO 1</u>			
	<u>EXTERNAL WORKS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades and to the Supplementary Preambles			
	<u>NOTE</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>BUDGETARY ALLOWANCE</u>			
	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.			
	<u>STORMWATER DRAINAGE</u>			
	<u>Site clearance:</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	100	
	<u>EXCAVATION, FILLING, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Excavations	m3	20	
	<u>Extra over trench and hole excavation in earth for excavation, in:</u>			
3	Soft rock	m3	5	
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4	Hard rock	m3	4
<u>Extra over all excavations for carting away:</u>			
5	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	5
<u>CONCRETE</u>			
<u>Movement joints:</u>			
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
<u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days:</u>			
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
<u>PAVED WALKWAY</u>			
<u>Site clearance:</u>			
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
<u>Open face excavation in earth over sloping site</u>			
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
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	<u>Earth filling supplied by the contractor under parking areas, roadways, etc:</u>		
14	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m	90
	<u>Compaction of surfaces:</u>		
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	18
	<u>Prescribed density tests on filling:</u>		
16	Modified AASHTO Density test	No	4
	<u>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</u>		
17	Under paving etc	m2	600
	<u>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:</u>		
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
	<u>FENCING</u>		
	<u>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:</u>		
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	300
22	Extra over for 32mm diameter inclined stay 1.8m long with one end bolted to post, including concrete base	No	10
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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
<u>Welded steel palisade security fencing with posts encased in concrete footings:</u>			
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	529
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
<u>WATER TANKS AND STANDS</u>			
<u>EXCAVATION, FILLING, ETC.</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
29	Surface trenches	m3	6
<u>Extra over trench and hole excavation in earth for excavation, in:</u>			
30	Soft rock	m3	2
31	Hard rock	m3	2
<u>Extra over all excavations for carting away:</u>			
32	Surplus material from the excavations to a dumping site to be located by the Contractor	m3	2
<u>Risk of collapse of excavations:</u>			
33	Sides of trench and hole excavations not exceeding 1,5m deep	m2	5
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<u>Keeping excavations free of water:</u>					
34	Keeping excavations free of water		Item		
<u>Earth filling obtained from the excavations compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>					
35	In backfilling to trenches, etc.	m3	6		
<u>Compaction of surfaces:</u>					
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	6		
<u>Soil insecticide:</u>					
37	To bottoms and sides of trenches, etc.	m2	48		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>REINFORCED CONCRETE, ETC</u>					
<u>20MPa/19mm Concrete, in:</u>					
38	In strip footings	m3	15		
<u>25MPa/19mm Concrete, in:</u>					
39	Tank base	m3			
<u>Sundries:</u>					
40	Cast end of holding down bolt into top of concrete	No	52		
<u>FORMWORK</u>					
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
41	Edges, risers, etc. not exceeding 300mm wide or high	m	24		
<u>TEST BLOCKS</u>					
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	12		
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RALSON TSHIANNE SECONDARY 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	57
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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	57
52	Extra for wrapping around 32mm bend	m	12

HDPE Class 6 water pipes:

53	32mm Pipes laid in and including trenches 900mm deep	m	500
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Extra over galvanised mild steel water supply pipes for fittings:

54	20mm Fittings	No	15
55	25mm Fittings	No	20

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56	32mm Nipple	No	30		
57	32mm Bend	No	15		
58	32mm Tee	No	10		
59	32mm Reducing Tee	No	10		
	<u>Brass Fittings:</u>				
60	32mm Stopcock with joint to steel as "Cobra 121".	No	5		
61	40mm Non-return valve with joints to steel	No	6		
	<u>Cast Brass:</u>				
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		
	<u>Valve box chambers, etc.:</u>				
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	3		
	<u>WATER STORAGE TANKS AND STANDS</u>				
	<u>WATER TANKS</u>				
	<u>Note: Rainwater tanks shall be without welded seams and of one piece moulded construction:</u>				
65	5000 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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67	Ditto including hoisting and fixing to tankstand (elsewhere) approximately 4 m above ground level	No	12		
68	Hole through top of tank lid for 100 mm diameter pipe	No	3		
	<u>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:</u>				
69	600 x 600 x 650mm High 25MPa/19mm stone concrete base including all necessary excavations, formwork, backfilling, etc	No	12		
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	48		
71	Angle section legs, rails, braces, etc.	t	1		
72	20mm Diameter round bar rungs 360mm long	No	72		
73	Bolts, nuts, washers, etc.	kg	48		
	<u>Creosote treated sawn softwood:</u>				
74	25 x 100mm Edge strip 1 700mm long	No	8		
75	76 x 114mm Bearers 1700mm long	No	24		
	<u>TESTING</u>				
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

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EXTERNAL WORKS

RALSON TSHIANNE SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL NO 1</u>			
	<u>SITE SERVICES</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 3</u>			
	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			
	<u>Filling (General)</u>			
	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			
	<u>uPVC pipes and fittings</u>			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed			
	<u>uPVC pressure pipes and fittings</u>			
	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			
	<u>Fixing of pipes</u>			
	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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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)
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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).
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Unless otherwise described bedding of rigid pipes shall be class B bedding

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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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<u>Precast concrete circular manholes (covers elsewhere):</u>				
8	Manhole 1000mm diameter and exceeding 1000mm and not exceeding 1250mm deep internally, including all excavations, backfilling and compaction	No	2	
<u>Covers, etc.:</u>				
9	1000mm Diameter 150mm thick precast concrete removable cover	No	2	
10	Lifting key for manhole cover	No	2	
<u>Sundries:</u>				
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	
<u>The following in septic tank:</u>				
17	Clear site by digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 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 disposal of excavated material	m3	85	
19	Ditto, but exceeding 2m and not exceeding 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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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 with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	4
<u>(End of septic tank)</u>			
<u>The following in manhole to septic tank:</u>			
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
<u>(End of manhole to septic tank)</u>			
<u>The following in french drains:</u>			
47	Excavate in earth not exceeding 2m deep below natural ground level, including trimming sides, levelling and compacting bottoms and disposal of excavated material	m3	45
48	Ditto, but exceeding 2m and not exceeding 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
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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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**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 40 000.00 (Forty Thousand Rand)
NET for demolition of delapidated toilet structures

Item

40,000 00

REFURBISHMENT OF EXISTING TOILETS

- 2 Allow for provisional Amount of R 150 000.00 (One Hundred T
housand Rand) NET for demolition of dilapidated toilet structures

Item

150,000 00

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