Item No		Quantity	Rate	Amount

SECTION No. 1 - PRELIMINARIES

BILL NO. 1

PRELIMINARIES

MEANING OF TERMS "TENDER / TENDERER"

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

PRELIMINARIES

The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item

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

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SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

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

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

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

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

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

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

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

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

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

"**FRAUDULENT PRACTICE**" means a mispresentation 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

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

"**INTEREST"** means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate 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)

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed:_____ Value related:_____ Time related:_____ Item

OBJECTIVE AND PREPARATION

1 **A2.0 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

Fixed:_____ Value related:_____ Time related:_____ Item

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1	**A3.0 DOCUMENTS** Clause 3.0 Clause 3.2.1 is amended by replacing"14.1" with "14.0" Clause 3.7 is amended by the addition of the following: The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the **site**, to which the **employer, principal agent** and **agents** shall have access at all times Clause 3.10 is amended by replacing the second reference to "**principal agent**" with the word "**employer**" Fixed:_____ Value related:_____ Time related:_____		Item		
2	**A4.0 DESIGN RESPONSIBILITY** Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed:_____ Value related:_____ Time related:_____		Item		
3	**A5.0 EMPLOYER'S AGENTS** Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8 Fixed:_____ Value related:_____ Time related:_____		Item		
4	**A6.0 SITE REPRESENTATIVE** Clause 6.0 Fixed:_____ Value related:_____ Time related:_____		Item		
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1	**A7.0 COMPLIANCE WITH REGULATIONS** Clause 7.0 Note: A separate clause has been included in Section C : Specific Preliminaries of the **bills of quantities / lump sum document** for the **contractor** to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification Fixed:_____ Value related:_____ Time related:_____	Item		
2	**A8.0 WORKS RISK** Clause 8.0 Fixed:_____ Value related:_____ Time related:_____	Item		
3	**A9.0 INDEMNITIES** Clause 9.0 Fixed:_____ Value related:_____ Time related:_____	Item		
4	**A10.0 WORKS INSURANCES** Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: **10.5 Damage to the Works** (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary			
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(b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**

(c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials 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

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(c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent,** cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

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

(e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall 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:

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10.7.1 Damage to the works

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

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

10.7.2 Injury to persons or loss of or damage to property

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

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

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

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	10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole Fixed:_____ Value related:_____ Time related:_____	Item		
1	**A11.0 LIABILITY INSURANCES** Clause 11.0 Fixed:_____ Value related:_____ Time related:_____	Item		
2	**A12.0 EFFECTING INSURANCES** Clause 12.0 Fixed:_____ Value related:_____ Time related:_____	Item		
3	**A13.0** ***No clause***	N/A		
4	**A14.0 SECURITY** Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 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 VAT) 14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)			
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14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**				
	14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**				
	14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable Fixed:_____ Value related:_____ Time related:_____	Item			
	EXECUTION				
1	**A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS** Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The **security** selected in terms of 14.0 Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of **commencement date** Clause 15.2.1 is amended by replacing it with the following clause:				
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	Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4 Fixed:_____ Value related:_____ Time related:_____	Item		
1	**A16.0 ACCESS TO THE WORKS** Clause 16.0 Fixed:_____ Value related:_____ Time related:_____	Item		
2	**A17.0 CONTRACT INSTRUCTIONS** Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of **nominated** and **selected subcontractors**" Fixed:_____ Value related:_____ Time related:_____	Item		
3	**A18.0 SETTING OUT OF THE WORKS** Clause 18.0 Fixed: _____ Value related:_____ Time related:_____	Item		
4	**A19.0 ASSIGNMENT** Clause 19.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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1	**A20.0 NOMINATED SUBCONTRACTORS** Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on **nominated subcontractors** executing work allowed for under provisional sums Fixed:_____ Value related:_____ Time related:_____	Item		
2	**A21.0 SELECTED SUBCONTRACTORS** Clause 21.0 Clause 21 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item		
3	**A22.0 EMPLOYER'S DIRECT CONTRACTORS** Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item		
4	**A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS** Clause 23.0 Fixed:_____ Value related:_____ Time related:_____	Item		
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COMPLETION

1 **A24.0 PRACTICAL COMPLETION**

Clause 24.0

Fixed:_____ Value related:_____ Time related:_____ Item

2 **A25.0 WORKS COMPLETION**

Clause 25.0

Fixed:_____ Value related:_____ Time related:_____ Item

3 **A26.0 FINAL COMPLETION**

Clause 26.0

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

Fixed:_____ Value related:_____ Time related:_____ Item

4 **A27.0 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

Fixed:_____ Value related:_____ Time related:_____ Item

5 **A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed:_____ Value related:_____ Time related:_____ Item

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1	**A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION** Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____	Item			
2	**A30.0 PENALTY FOR NON-COMPLETION** Clause 30.0 Fixed:_____ Value related:_____ Time related:_____	Item			
	PAYMENT				
3	**A31.0 INTERIM PAYMENT TO THE CONTRACTOR** Clause 31.0 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 on the date of **practical completion** and up to but excluding the date of **final completion**				
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31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

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

Alternative B

31.8(B) Where **security** 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**

Clause 31.12 is amended by deleting the following:

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

Fixed:_____ Value related:_____ Time related:_____

Item

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1	**A32.0 ADJUSTMENT TO THE CONTRACT VALUE** Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the **contractor"** Fixed:_____ Value related:_____ Time related:_____	Item			
2	**A33.0 RECOVERY OF EXPENSE AND LOSS** Clause 33.0 Fixed:_____ Value related:_____ Time related:_____	Item			
3	**A34.0 FINAL ACCOUNT AND FINAL PAYMENT** Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" Clause 34.13 is amended by replacing "seven (7) **calendar days"** with "twenty-one (21) **calendar days"** and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due" Fixed:_____ Value related:_____ Time related:_____	Item			
4	**A35.0 PAYMENT TO OTHER PARTIES** Clause 35.0 Fixed:_____ Value related:_____ Time related:_____	Item			
	Carried to Collection			R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**				

CANCELLATION

1 **A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT**

Clause 36.0

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

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

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

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

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

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

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

Fixed:_____ Value related:_____ Time related:_____ Item

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

Clause 37.0

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

Carried to Collection R

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	Clause 37.0 is amended by the addition of the following clause: 37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever Fixed:_____ Value related:_____ Time related:_____	Item			
1	**A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT** Clause 38.0 Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)" Clause 38.0 is amended by the addition of the following clause: 38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever Fixed:_____ Value related:_____ Time related:_____	Item			
	Carried to Collection		R		
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**				

1	**A39.0 CANCELLATION - CESSATION OF THE WORKS** Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) **working days** of completion of such a report" Fixed:_____ Value related:_____ Time related:_____	Item			
	DISPUTE				
2	**A40.0 DISPUTE SETTLEMENT** Clause 40.0 Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the **mediator** and related costs Fixed:_____ Value related:_____ Time related:_____	Item			
	SUBSTITUTE PROVISIONS				
3	**A41.0 STATE CLAUSES** Clause 41.0 Fixed:_____ Value related:_____ Time related:_____	Item			
	Carried to Collection			R	
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CONTRACT VARIABLES

1 **A42.0 THE SCHEDULE (DPW-04EC)**

Clause 42.0

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

Fixed:_____ Value related:_____ Time related:_____ Item

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SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

1 ***B1.1 Definitions and interpretation***

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

Fixed:_____ Value related:_____ Time related:_____ Item

B2.0 DOCUMENTS

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

Fixed:_____ Value related:_____ Time related:_____ Item

3 ***B2.2 Provisional bills of quantities***

Fixed:_____ Value related:_____ Time related:_____ Item

4 ***B2.3 Availability of construction documentation***

Fixed:_____ Value related:_____ Time related:_____ Item

5 ***B2.4 Interests of agents***

Fixed:_____ Value related:_____ Time related:_____ Item

6 ***B2.5 Priced documents***

Fixed:_____ Value related:_____ Time related:_____ Item

7 ***B2.6 Tender submission***

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

Fixed:_____ Value related:_____ Time related:_____ Item

Carried to Collection R

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	B3.0 THE SITE			
1	***B3.1 Defined works area***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
2	***B3.2 Geotechnical investigation***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
3	***B3.3 Inspection of the site***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
4	***B3.4 Existing premises occupied***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
5	***B3.5 Previous work - dimensional accuracy***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
6	***B3.6 Previous work - defects***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
7	***B3.7 Services - known***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
8	***B3.8 Services - unknown***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
9	***B3.9 Protection of trees***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
10	***B3.10 Articles of value***			
	Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1			
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1	***B3.11 Inspection of adjoining properties*** Fixed:_____ Value related:_____ Time related:_____	Item			
	B4.0 MANAGEMENT OF CONTRACT				
2	***B4.1 Management of the works*** Fixed:_____ Value related:_____ Time related: R _____	Item			
3	***B4.2 Programme for the works*** Fixed:_____ Value related:_____ Time related:_____	Item			
4	***B4.3 Progress meetings*** Fixed:_____ Value related:_____ Time related:_____	Item			
5	***B4.4 Technical meetings*** Fixed:_____ Value related:_____ Time related:_____	Item			
6	***B4.5 Labour and plant records*** Fixed:_____ Value related:_____ Time related:_____	Item			
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS				
7	***B5.1 Samples of materials*** Fixed:_____ Value related:_____ Time related:_____	Item			
8	***B5.2 Workmanship samples*** Fixed:_____ Value related:_____ Time related:_____	Item			
9	***B5.3 Shop drawings*** Fixed:_____ Value related:_____ Time related:_____	Item			
	Carried to Collection		R		
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1	***B5.4 Compliance with manufacturers' instructions*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B6.0 TEMPORARY WORKS AND PLANT			
2	***B6.1 Deposits and fees*** Fixed:_____ Value related:_____ Time related:_____	Item		
3	***B6.2 Enclosure of the works*** Fixed:_____ Value related:_____ Time related:_____	Item		
4	***B6.3 Advertising*** Fixed:_____ Value related:_____ Time related:_____	Item		
5	***B6.4 Plant, equipment, sheds and offices*** Fixed:_____ Value related:_____ Time related:_____	Item		
6	***B6.5 Main notice board*** Fixed:_____ Value related:_____ Time related:_____	Item		
7	***B6.6 Subcontractors' notice board*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B7.0 TEMPORARY SERVICES			
8	***B7.1 Location*** Fixed:_____ Value related:_____ Time related:_____	Item		
9	***B7.2 Water*** Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**			

1	***B7.3 Electricity*** Fixed:_____ Value related:_____ Time related:_____	Item		
2	***B7.4 Telecommunication facilities*** Fixed:_____ Value related:_____ Time related:_____	Item		
3	***B7.5 Ablution facilities*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B8.0 PRIME COST AMOUNTS			
4	***B8.1 Responsibility for prime cost amounts*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B9.0 ATTENDANCE ON N/S SUBCONTRACTORS			
5	***B9.1 General attendance*** Fixed:_____ Value related:_____ Time related:_____	Item		
6	***B9.2 Special attendance*** Fixed:_____ Value related:_____ Time related:_____	Item		
7	***B9.3 Commissioning - fuel, water and electricity*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B10.0 FINANCIAL ASPECTS			
8	***B10.1 Statutory taxes, duties and levies*** Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	

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1	***B10.2 Payment for preliminaries***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
2	***B10.3 Adjustment of preliminaries***				
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) **working days** of taking possession of the **site**" with "when submitting his priced **bills of quantities / lump sum document"**				
	Fixed:_____ Value related:_____ Time related:_____		Item		
3	***B10.4 Payment certificate cash flow***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
	B11.0 GENERAL				
4	***B11.1 Protection of the works***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
5	***B11.2 Protection / isolation of existing / sectionally occupied works***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
6	***B11.3 Security of the works***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
7	***B11.4 Notice before covering work***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
8	***B11.5 Disturbance***				
	Fixed:_____ Value related:_____ Time related:_____		Item		
	Carried to Collection			R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**				

1	***B11.6 Environmental disturbance*** Fixed:_____ Value related:_____ Time related:_____	Item		
2	***B11.7 Works cleaning and clearing*** Fixed:_____ Value related:_____ Time related:_____	Item		
3	***B11.8 Vermin*** Fixed:_____ Value related:_____ Time related:_____	Item		
4	***B11.9 Overhand work*** Fixed:_____ Value related:_____ Time related:_____	Item		
5	***B11.10 Instruction manuals and guarantees*** Fixed:_____ Value related:_____ Time related:_____	Item		
6	***B11.11 As built information*** Fixed:_____ Value related:_____ Time related:_____	Item		
7	***B11.12 Tenant installations*** Fixed:_____ Value related:_____ Time related:_____	Item		
	B12.0 SCHEDULE OF VARIABLES			
8	***B12.1 Schedule of variables*** Fixed:_____ Value related:_____ Time related:_____ This **schedule** contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these **Preliminaries**	Item		
	Carried to Collection		R	

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

12.1 PRE-TENDER INFORMATION

12.1.1 **Provisional bills of quantities**
[2.2] The quantities are provisional

YES

12.1.2 **Availability of construction documentation**
[2.3] *Construction documentation is complete*

YES

12.1.3 ***Interests of agents***
[2.4] Details:

12.1.4 ***Defined works area***
[3.1] Details:

12.1.5 ***Geotechnical investigation***
[3.2] Details:

12.1.6 ***Existing premises occupied***
[3.4] Specific requirements:

12.1.7 ***Previous work - dimensional accuracy***
[3.5] Details:

12.1.8 ***Previous work - defects***
[3.6] Details:

12.1.9 ***Services - known***
[3.7] Details:

12.1.10 ***Protection of trees***
[3.9] Specific requirements:

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12.1.11 ***Inspection of adjoining properties***
[3.11] Specific requirements:

12.1.12 ***Enclosure of the works***
[6.2] Specific requirements:

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

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

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

NO

Specific requirements:

Carried to Collection R

12.1.16 ***Water***
[7.2] Option A (by **contractor**)

NO

Option B (by **employer** - free of charge)

NO

Option C (by **employer** - metered)

YES

12.1.17 ***Electricity***
[7.3] Option A (by **contractor**)

NO

Option B (by **employer** - free of charge)

NO

Option C (by **employer** - metered)

YES

12.1.18 ***Telecommunications***
[7.4] Telephone

YES

Facsimile

YES

E-mail

YES

12.1.19 ***Ablution facilities***
[7.5] Option A (by **contractor**)

YES

Option B (by **employer**)

NO

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12.1.20 ***Protection of existing/sectionally occupied works***
[11.2] Protection is required

NO

12.1.21 ***Special attendance***
[9.2] **Subcontractor** (1) details:

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 ***Protection of the works***
[11.1] Specific requirements:

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

12.1.24 ***Environmental disturbance***
[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 ***Payment of preliminaries***
[10.2] Option A (prorated)

NO

Option B (calculated)

YES

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12.2.2 ***Adjustment of preliminaries***
[10.3] Option A (three categories)

NO

Option B (detailed breakdown)

YES

12.2.3 ***Additional agreed preliminaries items***
Details:

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SECTION C: SPECIFIC PRELIMINARIES

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

1 **C1.0 CONTRACT DRAWINGS**

** Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a **bills of quantities** or **lump sum document***

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

* 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: _____ Value related:_____
Time related:_____ Item

2 **C2.0 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used - PW371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related:_____
Time related:_____ Item

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1	**C3.0 TRADE NAMES** Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for Fixed: _____ Value related:_____ Time related:_____	Item			
2	**C4.0 IMPORTED MATERIALS AND EQUIPMENT** Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable) Fixed: _____ Value related:_____ Time related:_____	Item			
3	**C5.0 VIEWING THE SITE IN SECURITY AREAS** The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes Fixed: _____ Value related:_____ Time related:_____	Item			
	Carried to Collection			R	
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1	**C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS** As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account Fixed: _____ Value related:_____ Time related:_____		Item		
2	**C7.0 ENTRANCE PERMITS TO SECURITY AREAS** As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer Fixed: _____ Value related:_____ Time related:_____		Item		
3	**C8.0 SECURITY CHECK OF PERSONNEL** The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works** Fixed:_____ Value related:_____ Time related:_____		Item		
	Carried to Collection			R	
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1	**C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS** In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959 Fixed:_____ Value related:_____ Time related:_____	Item		
2	**C10.0 HIV/AIDS AWARENESS** It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment			
	Carried to Collection		R	

C10.1 AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item			
C10.2 AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item			
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item			
C10.4 ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item			
Carried to Collection			R	
PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**				

	C10.5 MONITORING Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item		
1	**C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT** The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document** The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent,** notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**			

1	**C12.0 COVID 19 ADDITIONAL HEALTH AND SAFETY SPECIFICATION.** The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the Disaster Management, 2002 (Act 57 of 2002) It is required of the **contractor** to thoroughly study the Covid 19 Additional Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document** The **contractor** must take note that compliance with the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations, Disaster Management Act and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent,** notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations,Disaster Management Act and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained The contractor is to price the Additional Covid Requirements bill of quantities attached at the back of this document (C1.2 OHS bill of quantities) and carry the amount to this section of work, failure to complete the attached bill of quantities will need to non compliance . Fixed:_____ Value related:_____ Time related:_____		Item		
	Carried to Collection			R	
	PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1 PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**				

PRELIMINARY AND GENERAL SUMMARY : LANGALETHU PRIMARY SCHOOL : CARRIED FROM LOCATION P 1 WITH THE FOLLOWING BREAKDOWN :

FIXED : _____

TIME : _____

VALUE : _____

TOTAL : _____

NOTE : TOTAL AMOUNT TO BE CARRIED TO ITEM 1 PAGE 48 OF LANGALETHU PRIMARY SCHOOL SCHOOL SECTION SUMMARY

PRELIMINARY AND GENERAL SUMMARY : CWAKA PRIMARY SCHOOL : CARRIED FROM LOCATION P 2 WITH THE FOLLOWING BREAKDOWN :

FIXED : _____

TIME : _____

VALUE : _____

TOTAL : _____

NOTE : TOTAL AMOUNT TO BE CARRIED TO ITEM 1 PAGE 100 OF CWAKA PRIMARY SCHOOL SCHOOL SECTION SUMMARY

Carried to Collection R

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, Bill No. 1
PRELIMINARIES AND GENERAL (NOT TO BE PRICED, **CWAKA PS, LANGALETHU PS & PATEKILE PS**

PRELIMINARY AND GENERAL SUMMARY :
PATEKILE PRIMARY SCHOOL : CARRIED FROM LOCATION P 2 WITH THE FOLLOWING BREAKDOWN :

FIXED : _____

TIME : _____

VALUE : _____

TOTAL : _____

NOTE : TOTAL AMOUNT TO BE CARRIED TO ITEM 1 PAGE 150 OF PATEKILE PRIMARY SCHOOL SECTION SUMMARY

Carried to Collection R

PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
Bill No. 1
PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

Bill No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

COLLECTION

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PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
Bill No. 1
PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

Bill No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

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PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
Bill No. 1
PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

Bill No. 1

PRELIMINARIES AND GENERAL (NOT TO BE PRICED, P&G PRICED PER SCHO

COLLECTION

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PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
Bill No. 1
PRELIMINARIES AND GENERAL (NOT TO BE PRICED,
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No		Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL			
	BILL No. 01			
	PRELIMINARIES AND GENERAL			
	NOTE: SECTION NO.1 : PRELIMINARIES AND GENERAL : To be used as a pricing guide line for the requirements of each school in separate locations.			
	P1 : Langalethu Primary School			
1	The total to be carried from item Page 43 of the Preliminaries and General Section for P 1 : Langalethu Primary School			
	Fixed: _____			
	Time: _____			
	Value :_____	Item		
	Carried Forward to Summary of Section No. 2		R	

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 02				
	Note:				
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014).				
	Quantity breakdown				
	In this Section No. 2 of the Bills of Quantities a breakdown of the total quantities into the various buildings is indicated below each description as follows:				
	A1 - DWG 04 - Staff Ablutions C1 - DWG 07B - Grade R Ablutions D1 - DWG 10 - Male ablutions G1 - DWG 17 - Female Ablutions				
	It should be noted that due to the "rounding off" factor marginal differences can occur between the sum of the parts to the total given in the quantity column. For pricing purposes only the amount in the quantity column is to be used.				
	EARTHWORKS (PROVISIONAL)				
	Site clearance				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site. A1 : 53 C1 : 47 D1 : 78 G1 : 91	m2	269		
	Carried to Collection			R	

	EXCAVATIONS, FILLING, ETC.				
	BULK EXCAVATIONS				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
1	Pit toilet. A1 : 6 C1 : 7 D1 : 8 G1 : 14	m3	35		
	Excavate in earth exceeding 2m deep not exceeding 4m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Pit toilet. A1 : 25 C1 : 32 D1 : 31 G1 : 89	m3	177		
	Excavations in earth of more difficult character				
3	Extra over excavations in earth for excavation in soft rock. A1 : 6 C1 : 4 D1 : 4 G1 : 10	m3	25		
4	Extra over excavations in earth for excavation in hard rock. A1 : 3 C1 : 2 D1 : 2 G1 : 5	m3	13		
	EXCAVATIONS FOR FOUNDATIONS, ETC.				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
5	Surface trenches. A1 : 5 C1 : 4 D1 : 7 G1 : 7	m3	23		
	Excavations in earth of more difficult character				
6	Extra over excavations in earth for excavation in soft rock. A1 : 1 C1 : 0 D1 : 1 G1 : 1	m3	4		
7	Extra over excavations in earth for excavation in hard rock. A1 : 1 C1 : 0 D1 : 0 G1 : 0	m3	2		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Carting away of excavated material				
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. A1 : 32 C1 : 39 D1 : 41 G1 : 89	m3	201		
	Risk of collapse of excavations				
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 11 C1 : 11 D1 : 19 G1 : 13	m2	54		
3	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 31 C1 : 35 D1 : 34 G1 : 59	m2	159		
	Working space				
4	Excavate in earth for working space exceeding 1500mm and not exceeding 3000mm deep, 500mm from the face of blockwork in the pit, for waterproofing purposes including backfilling with G7 imported material compacted in 150mm thick layers to 95% Modified AASHTO dry density. A1 : 35 C1 : 35 D1 : 34 G1 : 42	m2	146		
	Keeping excavations free of water				
5	Allow for keeping the excavations free from water.		Item		
	Filling				
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density. A1 : 2 C1 : 3 D1 : 3 G1 : 4	m3	12		
	Foundation courses				
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. A1 : 9 C1 : 9 D1 : 11 G1 : 15	m3	44		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc. A1 : 0 C1 : 0 D1 : 1 G1 : 1	m3	2		
	Compaction of surfaces				
2	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density. A1 : 35 C1 : 28 D1 : 46 G1 : 53	m2	162		
3	Scarify in-situ material to a depth of 75mm and compact to 93% Mod AASHTO density. A1 : 3 C1 : 3 D1 : 3 G1 : 3	m2	12		
	Filter fabric				
4	Grade 3 needle punched non-woven synthetic fibre filter fabric laid vertically against waterproofing membrane as backfilling proceeds. A1 : 31 C1 : 51 D1 : 50 G1 : 89	m2	221		
	Weedkillers, insecticides, etc.				
	Soil insecticide in accordance with SANS 5859				
5	Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming. A1 : 16 C1 : 14 D1 : 43 G1 : 18	m2	91		
6	To bottoms and sides of trenches. A1 : 12 C1 : 9 D1 : 5 G1 : 6	m2	32		
7	To bottoms and sides of pit excavation. A1 : 43 C1 : 51 D1 : 62 G1 : 87	m2	243		
	Tests				
8	Allow for Mod AASHTO density tests on filling.	No	16.00		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 2

EARTHWORKS (PROVISIONAL)

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 03				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	CONCRETE				
	Mass concrete 15MPa (19mm stone) in:				
1	Blinding beneath bases, strip footings, etc cast against excavated surfaces. A1 : 0.7 C1 : 0.8 D1 : 0.8 G1 : 2.2	m3	4.5		
	Reinforced concrete 25MPa (19mm stone) in:				
2	Slabs including beams and inverted beams. A1 : 4 C1 : 4 D1 : 5 G1 : 9	m3	22		
3	Surface beds A1 : 2 C1 : 1 D1 : 3 G1 : 6	m3	12		
4	Aprons cast in panels A1 : 1 C1 : 1 D1 : 1 G1 : 1	m3	4		
5	100 x 100mm Triangular fillets cast on top of pit Base Slab A1 : 11 C1 : 14 D1 : 9 G1 : 26	m	60		
	Surface treatment				
6	Float surface of concrete to a wood float finish. A1 : 19 C1 : 16 D1 : 32 G1 : 44	m2	111		
7	Powerfloating of concrete surface bed. A1 : 10 C1 : 10 D1 : 12 G1 : 15	m2	47		
	Carried to Collection			R	

	Test blocks and testing				
1	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	16		
	POLYSTERENE BLOCKS ETC				
	Polystrene blocks in composite slabs				
2	850 x 500mm extreme wide at the bottom, 550mm wide at the top x 110mm high polysterene block laid end to end rows A1 : 12 C1 : 20 D1 : 16 G1 : 40	No	88		
	PREFABRICATED CONCRETE RIB				
	25MPa precast reinforced concrete rib				
3	150 x 40mm high concrete rib with two 10mm high tensile reinforcing bars, in lengths not exceeding 5m. A1 : 8 C1 : 15 D1 : 30 G1 : 0	m	54		
4	150 x 40mm high concrete rib with two 10mm high tensile reinforcing bars, in lengths exceeding 7,5m and not exceeding 10m. A1 : 0 C1 : 0 D1 : 0 G1 : 35	m	35		
	FORMWORK				
	Supporting bearers to prefabricated beams				
5	Bearers propped up exceeding 1,5m high and not exceeding 3.5m high A1 : 18 C1 : 18 D1 : 18 G1 : 35	m	88		
	Permanent formwork				
6	Soffits of slabs not exceeding 250mm thick and exceeding 1.5m and not exceeding 3.5 above bearing level. A1 : 8 C1 : 10 D1 : 10 G1 : 23	m2	51		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 3
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Rough formwork (use and waste) to concrete to:				
	Edges, risers, ends and reveals				
1	Edge, riser, etc not exceeding 300mm high. A1 : 17 C1 : 13 D1 : 30 G1 : 38	m	98		
	Openings				
2	Leave or form circular opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 5 C1 : 6 D1 : 8 G1 : 18	No	37		
3	Leave or form square opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 2 C1 : 2 D1 : 2 G1 : 5	No	11		
4	Cut or form circular opening not exceeding 1m girth through 110mm thick polystyrene block A1 : 5 C1 : 6 D1 : 8 G1 : 9	No	28		
5	Cut or form square opening not exceeding 1m girth through 110mm thick polystyrene block. A1 : 2 C1 : 2 D1 : 2 G1 : 9	No	15		
6	Cut or form circular opening not exceeding 1m girth through permanent formwork A1 : 5 C1 : 6 D1 : 8 G1 : 9	No	28		
7	Cut or form square opening not exceeding 1m girth through permanent formwork A1 : 2 C1 : 2 D1 : 2 G1 : 9	No	15		
	Movement joints				
8	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces. A1 : 17 C1 : 13 D1 : 30 G1 : 42	m	102		
9	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer. A1 : 17 C1 : 13 D1 : 30 G1 : 42	m	102		
	Carried to Collection			R	

1	Slip joint not exceeding 300mm wide formed of two layers of 3 Ply malthoid laid on and including a 3:1 cement mortar bedding. A1 : 17 C1 : 13 D1 : 30 G1 : 42	m	102		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
2	16mm Diameter bars. A1 : 0.107 C1 : 0.076 D1 : 0.149 G1 : 0.120	t	0.452		
3	10mm Diameter bars. A1 : 0.174 C1 : 0.173 D1 : 0.217 G1 : 0.447	t	1.011		
	High tensile welded steel mesh reinforcement :				
4	Ref: 193 cast into concrete surfaces. A1 : 19 C1 : 16 D1 : 32 G1 : 44	m2	111		
5	Ref: 311 cast into concrete surfaces. A1 : 12 C1 : 15 D1 : 15 G1 : 36	m2	79		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 3
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 3

CONCRETE, FORMWORK & REINFORCEMENT

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Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 04				
	MASONRY				
	FOUNDATION BRICKWORK (PROVISIONAL)				
	Walls and linings in stock bricks in 5:1 cement mortar :				
1	Half brick wall. A1 : 5 C1 : 9 D1 : 9 G1 : 23	m2	46		
2	One brick wall. A1 : 30 C1 : 24 D1 : 33 G1 : 74	m2	161		
	Reinforcement to brickwork				
3	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 19 C1 : 39 D1 : 39 G1 : 97	m	194		
4	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 117 C1 : 94 D1 : 131 G1 : 291	m	633		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
5	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 4 C1 : 4 D1 : 6 G1 : 7	m2	21		
	SUPERSTRUCTURE BRICKWORK				
	Walls and linings in stock bricks in 5:1 cement mortar :				
6	Half brick wall. A1 : 8 C1 : 5 D1 : 21 G1 : 29	m2	63		
	Carried to Collection			R	

1	One brick wall. A1 : 51 C1 : 33 D1 : 67 G1 : 80	m2	231		
	Beamfilling				
2	Half brick wall. A1 : 6 C1 : 5 D1 : 8 G1 : 10	m2	29		
	BRICKWORK SUNDRIES				
	Brickwork air ventilation, etc.				
3	Extra over brickwork for cutting to form 120 x 85mm ventilation openings in 220mm wall A1 : 60 C1 : 60 D1 : 246 G1 : 261	No	627		
	Reinforcement to brickwork				
4	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 32 C1 : 19 D1 : 81 G1 : 133	m	265		
5	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 146 C1 : 65 D1 : 171 G1 : 312	m	694		
	Bagging				
6	Bag down outer face of inner skin of brick wall in 4:1 cement slurry. A1 : 51 C1 : 33 D1 : 67 G1 : 80	m2	231		
	Precast pre-stressed reinforced concrete lintols				
7	75 x 110mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 4 C1 : 5 D1 : 5 G1 : 11	m	25		
8	90 x 140mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 0 C1 : 3 D1 : 0 G1 : 0	m	3		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 4
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Hoop iron ties, cramps, etc.				
1	1.6 x 30mm Galvanized hoop iron roof tie 1100mm long with one end wrapped around and spiked to timber the other end built a minimum of six courses deep into brickwork as the work proceeds. A1 : 8 C1 : 11 D1 : 16 G1 : 18	No	53		
2	30 x 1,2mm Galvanised hoop iron strap 800mm long shot pinned to brickwork and bent into brickwork A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
3	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 55 C1 : 37 D1 : 67 G1 : 89	m2	248		
	Face brick copings, lintols, cills, etc.				
4	Extra over brickwork for brick-on-edge header course tread including pointing to one face and top. A1 : 2 C1 : 3 D1 : 2 G1 : 2	m	9		
	Brickwork air ventilation, etc.				
5	Extra over brickwork for fair cutting to form 120 x 85mm ventilation openings in facebrick, including facing and pointing A1 : 60 C1 : 60 D1 : 246 G1 : 261	No	627		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 4
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 4

MANSORY

COLLECTION

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 4
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 05				
	WATERPROOFING				
	DAMP-PROOF COURSE				
	SHEET OR MEMBRANE WATERPROOFING				
	250 Micron "Gunplas USB" green polyethylene sheeting :				
1	Laid flat on prepared sand bed under solid floor. A1 : 18 C1 : 20 D1 : 32 G1 : 48	m2	118		
	FLASHING STRIPS				
	Elastic acrylic and rubberised bitumen compound with "waterproof membrane" applied in strict accordance with the Manufacturer's instructions :				
2	Flashing strips around 110mm diameter PVC vent pipes through steel roof sheeting. A1 : 0 C1 : 0 D1 : 0 G1 : 1	m	2		
	LIQUID WATERPROOFING				
	Two coats "ABE Brickseal"				
3	Vertically on bagged surface of brickwork. A1 : 49 C1 : 32 D1 : 59 G1 : 79	m2	219		
	MEMBRANE WATERPROOFING				
	"Duraflex" or equally approved cementitious flexible waterproofing slurry including saturation membrane with 75mm side and 100mm end laps applied in accordance with manufactures specifications				
4	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 24 D1 : 28 G1 : 53	m2	130		
	Carried to Collection			R	

	PROTECTION				
	"Abe Cote SF 356" or other equal approved epoxy tar coating on				
1	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 24 D1 : 28 G1 : 53	m2	130		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 5
WATERPROOFING
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 5

WATERPROOFING

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Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 06				
	ROOF COVERINGS, ETC.				
	PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.				
	Metal roof sheeting				
	0,8mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :				
1	Roof sheeting laid to a mono-pitch secured to timber purlins at approximately 940mm centres including turning up sheet at ridge and turning down sheet at eaves. A1 : 18 C1 : 14 D1 : 32 G1 : 41	m2	105		
	Circular cutting				
2	Circular cutting on roof sheeting for ventilators, vent pipes, etc. A1 : 0 C1 : 2 D1 : 0 G1 : 1	m	4		
	Accessories, etc. to match roof sheeting				
3	Ridge capping 550mm girth. A1 : 4 C1 : 3 D1 : 8 G1 : 10	m	25		
4	Broad flute serrated closer including polyclosers. A1 : 4 C1 : 3 D1 : 8 G1 : 10	m	25		
5	Narrow flute serrated closer including polyclosers. A1 : 4 C1 : 3 D1 : 8 G1 : 10	m	25		
6	Ridge finial. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
	Carried Forward to Summary of Section No. 2			R	

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 07				
	CARPENTRY AND JOINERY				
	CARPENTRY				
	PLATE NAILED TIMBER ROOF CONSTRUCTION				
	Fixing:				
	All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to blockwork or concrete.				
	Erection certificates				
1	Contractor is to supply a roof rafters erection certificate for the building stating that the erection and installation of the roof rafters has been inspected and approved by a professional registered structural engineer. A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Purlins, bracing, etc.				
	Sawn softwood :				
2	38 x 114mm Wall plate wired down (wire ties elsewhere). A1 : 9 C1 : 13 D1 : 16 G1 : 20	m	58		
3	50 x 76mm Purlins. A1 : 22 C1 : 17 D1 : 40 G1 : 50	m	129		
4	76 x 38mm S5 Treated Timber A1 : 6 C1 : 5 D1 : 11 G1 : 12	m	34		
5	38 x 38 x 152mm Long cleat spiked to rafter foot. A1 : 8 C1 : 4 D1 : 8 G1 : 9	No	29		
	Carried to Collection			R	

1	50 x 76 x 500mm Long sprocket spiked to timber purlin. A1 : 10 C1 : 10 D1 : 10 G1 : 10	No	40		
	Laminated S. A. Pine				
2	152 x 38mm S5 Timber Rafters A1 : 15 C1 : 15 D1 : 31 G1 : 35	m	96		
	Sundries:				
3	Hurricane clip fixed to purlin and rafter. A1 : 20 C1 : 20 D1 : 40 G1 : 45	No	125		
	JOINERY				
	Plastic, fibre cement, etc.				
	Pressed fibre-cement:				
4	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. A1 : 4 C1 : 3 D1 : 8 G1 : 10	m	25		
5	80 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc. A1 : 8 C1 : 8 D1 : 8 G1 : 8	m	32		
	TIMBER DOORS, WINDOWS ETC.				
	Wrot hardwood :				
6	44mm Thick framed, ledged, braced and battened door, size 762 x 1000mm high, comprising 44 x 180mm stiles and top rail, 22 x 180mm bottom rail and diagonal brace and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths. A1 : 0 C1 : 3 D1 : 0 G1 : 0	No	3		
	Frames and linings				
	Wrot hardwood :				
7	38 x 100mm Meranti jamb lining bolted to brickwork with and including 10 x 140mm masonry anchors at approximately 600mm centres. A1 : 0 C1 : 4 D1 : 0 G1 : 0	m	4		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 7
CARPENTRY AND JOINERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 7

CARPENTRY AND JOINERY

COLLECTION

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 7
CARPENTRY AND JOINERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 08				
	IRONMONGERY				
	IRONMONGERY TO TIMBER				
	Hinges				
1	100 x 75mm Heavy duty brass butt hinges. A1 : 0 C1 : 6 D1 : 0 G1 : 0	No	6		
	Handles				
2	100mm Chromium plated pull handle. A1 : 0 C1 : 3 D1 : 0 G1 : 0	No	3		
	IRONMONGERY TO METALWORK				
	Locksets, etc. provided with two keys and to be masterkeyed				
3	51mm brass padlock with stainless steel shackle. A1 : 2 C1 : 1 D1 : 2 G1 : 1	No	6		
	IRONMONGERY FIXED TO CONCRETE, TILING, ETC.				
	Push plates, kicking plates, indicator plates, etc.				
4	152 x 152 x 3mm Thick anodised silver aluminium sex indicator plate. A1 : 2 C1 : 1 D1 : 1 G1 : 1	No	5		
5	152 x 152 x 3mm Thick anodised silver aluminium disabled indicator plate. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	3mm Thick x 32mm high clear perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame				
6	Sign with "MALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

1	Sign with "FEMALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Door stops				
2	Black rubber door stop plugged to wall. A1 : 3 C1 : 3 D1 : 4 G1 : 9	No	19		
	Sundries				
3	50mm Plastic key tag. A1 : 2 C1 : 1 D1 : 2 G1 : 3	No	8		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 8
IRONMONGERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 8

IRONMONGERY

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 09				
	STRUCTURAL STEEL				
	Pre-galvanised (Z450) structural steelwork (Grade 350W)				
1	100 x 50 x 20 x 2mm Cold formed lipped channel including bolting to brickwork at 910mm centres. A1 : 2 C1 : 0 D1 : 3 G1 : 6	m	11		
	Carried Forward to Summary of Section No. 2			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 9
STRUCTURAL STEEL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 10				
	METALWORK				
	Hot dipped galvanised mild steel gates				
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel pipe framing all round and two horizontal intermediate rails with mitred and welded angles, the gate filled in with 12mm diameter mild steel bars welded, at each end, vertically to perimeter and intermediate framing at not exceeding 109mm centres, the leaf fitted with a 150mm long padbolt, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 2 C1 : 1 D1 : 2 G1 : 1	No	6		
	Hot dipped galvanised mild steel mesh screen				
2	Mesh screen, size 2230mm wide x 2100mm high, formed of 32 x 32 x 2mm wall thickness square hollow section framing all round and two horizontal rails with mitred and welded angles, the framing covered with 50 x 50 x 4mm weld mesh tack welded on, and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 0 C1 : 1 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

	Hot dipped galvanised steel cladded doors and accessories				
1	Door, size 760 x 1680mm high, formed of 19 x 19mm tubular steel perimeter framing and horizontal middle rail welded at angles and intersections, covered on one side with 0,6mm galvanised sheeting, prepainted "Golden Brown", pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with slot for and including barrel bolt, the gate fitted with and including 25mm diameter x 2120mm long pivot pipe support welded on, 150 x 38 x 3mm top bearing bolted to beam with 2 x 6mm diameter bolts, including top cap bearing bush, washers, bottom bearing bush and finishing smooth on all exposed edges, complete with all fixing brackets, bolts etc. A1 : 3 C1 : 0 D1 : 4 G1 : 8	No	15		
	Pre-galvanised steel chawl doors				
2	Single door to suit one brick wall, size 950 x 2030mm high, provided complete with integral frame, ironmongery, etc. finished with red oxide primer to receive paint (elsewhere). A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Carried to Collection			R	

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 10

METALWORK

COLLECTION

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 10
METALWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 11				
	PLASTERING				
	SCREEDS				
	Untinted granolithic screeds, etc. mixed by volume 4 parts granite chips, 1 part sand and 2 parts cement				
1	40mm Thick screed to floors and landings. A1 : 11 C1 : 6 D1 : 23 G1 : 25	m2	65		
2	25mm Thick screed to falls A1 : 3 C1 : 3 D1 : 4 G1 : 9	m2	19		
	Skirtings				
3	75mm High coved skirting. A1 : 18 C1 : 16 D1 : 38 G1 : 53	m	125		
	PLASTER				
	One coat internal 1:4 cement plaster on :				
4	Brick walls in pit. A1 : 39 C1 : 32 D1 : 57 G1 : 143	m2	271		
5	Brick walls (ICP) A1 : 76 C1 : 48 D1 : 95 G1 : 97	m2	316		
	Carried Forward to Summary of Section No. 2			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 11
PLASTERING
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 12				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	Roof gutters, rainwater pipes, etc.				
	uPVC gutter including gutter brackets				
1	125mm Half round eaves gutters on gutter brackets at 1000mm centres maximum fixed to fascias. A1 : 4 C1 : 3 D1 : 8 G1 : 10	m	25		
2	Extra over uPVC gutter for forming discharge outlet to suit 100 x 75mm downpipe. A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
3	Extra over gutter for stopped end. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
4	75mm Rainwater downpipe fixed to wall with and including proprietary holderbats. A1 : 2 C1 : 4 D1 : 4 G1 : 4	m	14		
5	Extra over rainwater downpipe for bend. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
	PIPEWORK, ETC.				
	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Class 6 HDPE waterpipe				
6	22mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc. A1 : 0 C1 : 0 D1 : 0 G1 : 14	m	14		
	Carried to Collection			R	

	Extra over Class 6 HDPE pipe for fittings				
1	22mm Fittings. A1 : 0 C1 : 0 D1 : 0 G1 : 6	No	6		
	Class 2 copper pipes with straight compression fittings				
2	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc. A1 : 2 C1 : 0 D1 : 12 G1 : 0	m	14		
	Extra over copper pipes for brass compression fittings				
3	15mm Fittings. A1 : 4 C1 : 0 D1 : 10 G1 : 0	No	14		
	Extra over copper pipes for capillary fittings with soldered joints				
4	15mm Fittings. A1 : 2 C1 : 0 D1 : 4 G1 : 0	No	6		
	SOIL DRAINAGE				
	uPVC Pipes with solvent welded straight joints :				
5	40mm Pipes. A1 : 1 C1 : 0 D1 : 4 G1 : 0	m	5		
6	50mm Pipes. A1 : 1 C1 : 0 D1 : 2 G1 : 0	m	3		
	White uPVC vent pipe in single lengths :				
7	110mm Diameter vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. A1 : 12 C1 : 12 D1 : 16 G1 : 37	m	77		
	Extra over uPVC pipes for solvent welded fittings :				
8	40mm Plain bend. A1 : 2 C1 : 0 D1 : 4 G1 : 0	No	6		
9	50mm Plain bend. A1 : 2 C1 : 0 D1 : 4 G1 : 0	No	6		
	Carried to Collection			R	

1	Black PVC whirlybird vent capping over the 110mm vent pipe. A1 : 3 C1 : 3 D1 : 4 G1 : 9	No	19		
	Inspection chambers, catch pits, etc.				
	Light Composite covers and frames				
2	450 x 450mm x 8.6 kg EN124 A15 light composite manhole cover and frame inclusive of two stainless steel screws lock fasten cover with frame and two vented holes designed for the easy lifting and also has the function for draining, including fixing frame on concrete, A1 : 2 C1 : 2 D1 : 2 G1 : 5	No	11		
	SANITARY FITTINGS, TANKS, GEYSERS, ETC.				
	Plastic sanitaryware				
3	"222 AP" VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. A1 : 3 C1 : 3 D1 : 4 G1 : 9	No	19		
4	"507AP" Granite bowl urinal fitted with "496AP" waterless urinal waste fitting hung on wall on and including proprietary brackets. A1 : 1 C1 : 0 D1 : 4 G1 : 0	No	5		
5	"382AP" Basin, size 570 x 400 x 245mm, provided complete with two tapholes and built in soap holder, hung on wall on and including proprietary wall brackets. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Sanitary fitting sundries				
6	Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall. A1 : 3 C1 : 3 D1 : 4 G1 : 9	No	19		
7	Heavy-duty double-flap hinged toilet seat and cover. A1 : 3 C1 : 3 D1 : 4 G1 : 9	No	19		
	Grade 304 stainless steel ware :				
8	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Tanks, geysers, etc.				
	Rainwater tanks				
2	2500 Litre polyethylene rotomoulded vertical water storage tank complete, on 1600 x 1600 tank stand, including lid, fitted with and including 50 x 15mm reducer 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. (Note: tanks to be filled with water before Practical Completion). A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Galvanised Steel Pipe				
3	22mm galvanised steel pipe A1 : 1 C1 : 1 D1 : 1 G1 : 1	m	4		
	Taps, valves, etc.				
	Solid cast brass taps, valves, etc.				
4	"Cobra KM2-200" or other equal approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
5	15mm Ball-o-stop valve. A1 : 1 C1 : 0 D1 : 4 G1 : 1	No	6		
6	22mm Gate valve A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
7	22mm Non Return valve A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Waste unions, traps, etc.				
	Carried to Collection			R	

	Outlets, traps, etc :				
1	50mm Chromium plated PVC urinal bottle trap. A1 : 1 C1 : 0 D1 : 4 G1 : 0	No	5		
2	38mm Chromium plated brass slotted basin waste outlet with plug, chain and chain stay. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
3	38mm PVC Mini P-trap. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 12

PLUMBING AND DRAINAGE (PROVISIONAL)

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - LANGALETHU PRIMARY SCHOOL				
	BILL No. 13				
	PAINTWORK				
	PAINT ON CONCRETE, PLASTER, ETC				
	Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on :				
1	Internal smooth plastered walls. A1 : 76 C1 : 53 D1 : 95 G1 : 156	m2	380		
2	Internal smooth plastered wall in narrow widths not exceeding 300mm wide A1 : 0 C1 : 0 D1 : 1 G1 : 1	m2	3		
	Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:				
3	Concrete floated or screeded floors A1 : 11 C1 : 6 D1 : 23 G1 : 25	m2	65		
4	Granolithic skirting not exceeding 300mm girth. A1 : 20 C1 : 19 D1 : 40 G1 : 54	m	133		
	PAINT ON TIMBER				
	Prime or oil				
5	Backs of frames or linings not exceeding 300mm girth. A1 : 0 C1 : 7 D1 : 0 G1 : 0	m	7		
6	Doors A1 : 0 C1 : 5 D1 : 0 G1 : 0	m2	5		
	Carried to Collection			R	

	PAINT ON METALWORK				
	Prepare and apply one coat bituminous paint on :				
1	Backs of steel door frames. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
	One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :				
2	Hot dipped galvanised steel gates. A1 : 4 C1 : 2 D1 : 4 G1 : 2	m2	12		
3	Hot dipped galvanised steel mesh screens. A1 : 0 C1 : 5 D1 : 0 G1 : 0	m2	5		
	One coat red oxide primer, one coat universal undercoat and two coats gloss enamel paint on :				
4	Pre-galvanised steel doors. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
5	Pre-galvanised steel door frames. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
	PAINT ON FIBRE-CEMENT				
	Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :				
6	External fibre cement fascia boarding including priming cover strips. A1 : 1 C1 : 1 D1 : 2 G1 : 2	m2	6		
7	External fibre cement bargeboard including priming cover strips. A1 : 2 C1 : 2 D1 : 2 G1 : 2	m2	8		
	PAINT ON PVC				
	Prepare and apply two coats black PVA paint on:				
8	Vent pipes. A1 : 1 C1 : 1 D1 : 2 G1 : 4	m2	8		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 13
PAINTWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 13

PAINTWORK

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 13
PAINTWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 2 - EXTERNAL WORKS - LANGALETHU PRIMARY SCHOOL				
	BILL No. 14				
	EXTERNAL WORKS (PROVISIONAL)				
	Note:				
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).				
	DEMOLITIONS				
	Brickwork building structures				
1	Demolish and cart away single storey toilet block complete, size on plan 6000mm x 3000mm approximately 2400mm high, constructed of fibre cement roof and wall structure, including ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	2		
2	Demolish and cart away single storey toilet block complete, size on plan 6000mm long x 3000mm wide x approximately 2500mm high, comprised of corrugated iron roof covering on mono-pitch timber rafters, with plastered and painted brick walls including timber doors, ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	1		
	Carried to Collection			R	

1	Demolish and cart away single storey toilet block complete, size on plan 3000mm long x 2000mm wide x approximately 2400mm high, comprised of fibre cement roof covering on mono-pitch timber trusses, constructed of facebrick walls including timber doors, ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. and grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	1		
2	Demolish and cart away single storey toilet block complete, size on plan 1200mm long x 1200mm wide x approximately 2400mm high, constructed of precast concrete structure, including ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. and grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	2		
	Pit toilets				
3	Allow for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out.	No	22		
4	Allow for breaking down and removing from site entire pit latrine structure including any structure that may be inside the pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). Backfill existing hole with imported filling in max 150mm layers and compact to 95% MOD AASHTO density.	No	22		
	THE FOLLOWING IN WALKWAYS, RAMPS, ETC.				
	EARTHWORKS				
	Site clearance				
5	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	120		
	Carried to Collection			R	

	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
1	Reduced levels under solid floors.	m3	24		
	Carting away of excavated material				
2	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24		
	Filling				
3	150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs.	m3	18		
	Prescribed Testing				
4	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	Reinforced concrete 25MPa (19mm stone) in:				
5	Paving in panels including any necessary formwork.	m3	12		
6	Ramps.	m3	0.4		
	Surface treatment				
7	Float surface of concrete to a wood float finish.	m2	120		
	Test blocks and testing				
8	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	2		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Movement joints				
1	10mm Thick "Jointex" closed cell polyethylene joint filler with hinged blocking piece between concrete surfaces not exceeding 300mm wide.	m	33		
2	Remove hinged blocking piece and fill 10 x 15mm cavity with an approved 2 part polysulphide sealer.	m	33		
	FORMWORK				
	Edges, risers, ends and reveals				
3	Edge, riser, etc not exceeding 300mm high.	m	200		
	Reinforcement				
4	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	120		
	THE FOLLOWING IN STORMWATER CUT OFF DRAIN / EARTH BERM				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
5	Reduced levels	m3	30		
	Filling				
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	30		
	Compaction of surfaces				
7	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	60		
	Grassing, ground cover, etc.				
8	Kikuyu turf (sods or rolls) instant lawn 25 to 40mm thick, imported from commercial sources, laid firmly with staggered joints within three days of being lifted.	m2	50		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	THE FOLLOWING IN CONCRETE CHANNELS, ETC.				
	EARTHWORKS				
1	Holes	m3	0.3		
2	Surface trenches.	m3	1		
	Carting away of excavated material				
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
4	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	1		
	Sundries				
5	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	3		
	Prescribed Testing				
6	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	4		
	FORMWORK				
	Edges, risers, ends and reveals				
7	Edge, riser, etc not exceeding 300mm high.	m	6		
	Grooves, channels, mortices, etc.				
8	700 x 150mm V-Channels in top	m	3		
9	1500 x 750 x 150mm Concrete V-Channel Spreader	No	1		
	REINFORCEMENT (PROVISIONAL)				
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	High tensile rod reinforcement to structural concrete work				
1	12mm Diameter bars.	t	0.007		
	Reinforcement				
2	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	3		
	THE FOLLOWING IN STAND PIPE BIP TAP ETC.				
	EARTHWORKS				
3	Holes	m3	1		
4	Surface trenches.	m3	6		
	Carting away of excavated material				
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
	Risk of collapse of excavations				
6	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	7		
	Keeping excavations free of water				
7	Allow for keeping the excavations free from water.		Item		
	Filling				
8	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	6		
	Foundation courses				
9	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	0.3		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Sundries				
1	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	2		
	Prescribed Testing				
2	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	CONCRETE (Labour intensive)				
	Mass concrete 25MPa (19mm stone) in:				
3	Strip foundations cast against excavated surfaces.	m3	2		
	Reinforced concrete 25MPa (19mm stone) in:				
4	Slabs	m3	1		
5	110mm PVC Blue Water Pipe	m3	1		
	FORMWORK				
	Edges, risers, ends and reveals				
6	Edge, riser, etc not exceeding 300mm high.	m	3		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
7	12mm Diameter bars.	t	0.003		
	PIPEWORK, ETC.				
	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Class 2 copper pipes with straight compression fittings				
1	22mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	46		
	Extra over copper pipes for brass compression fittings				
2	22mm Fittings.	No	12		
	uPVC Pipes				
3	110mm Blue Water Pipe.	m	7		
	SANITARY FITTINGS				
	Solid cast brass taps, valves, etc.				
4	Bib Tap or Similar approved	No	4		
	THE FOLLOWING IN SECURITY FENCING				
	SECURITY FENCING				
	Site clearance				
5	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs, etc., not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	40		
	Fencing				
6	4mm galvanised straining wires (evenly spaced) secured to straining posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to and inclusing 12mm diameter straining eye bolts.	m	40		
	Carried to Collection			R	

1	Fencing formed of 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence 1.8m high with vertical wires facing outwards secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (elsewhere).	m	40		
	<u>Hot dipped galvanised steel posts, etc.</u>				
2	60mm Diameter x 2.5mm wall thickness intermediate fencing post, 2700mm long fitted with pressed steel mushroom cap, the post fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base including all necessary excavations, backfilling, concrete, etc.	No	12		
3	100mm Diameter x 3mm wall thickness end or corner post 2700mm long fitted with pressed steel mushroom cap and one 60mm diameter x 2mm wall thickness raking stay, the post and stay fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	6		
4	100mm Diameter x 3mm wall thickness intermediate straining or corner post 2700mm long fitted with pressed steel mushroom cap, but fitted with two 60mm diameter x 2mm wall thickness galvanised steel raking stays, the post and stays fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	2		
	Carried to Collection			R	

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

Bill No. 14

EXTERNAL WORKS

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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

SECTION SUMMARY - SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

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2	EARTHWORKS (PROVISIONAL)	53		
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6	ROOF COVERINGS, ETC	66		
7	CARPENTRY AND JOINERY	69		
8	IRONMONGERY	72		
9	STRUCTURAL STEEL	73		
10	METALWORK	76		
11	PLASTERING	77		
12	PLUMBING AND DRAINAGE (PROVISIONAL)	83		
13	PAINTWORK	86		
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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 2

SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

SECTION SUMMARY - SECTION NO.2 - LANGALETHU PRIMARY SCHOOL

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	CONTINGENCY PROVISIONS			
	The Tenderer is to allow hereunder for 5 (Five) percent of the Nett Builders Work Sub-Total to be used as a Budgetary Provision for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.	%		
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SECTION NO.2 - LANGALETHU PRIMARY SCHOOL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No		Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL			
	BILL No. 01			
	PRELIMINARIES AND GENERAL			
	NOTE: SECTION NO.1 : PRELIMINARIES AND GENERAL : To be used as a pricing guide line for the requirements of each school in separate locations.			
	P2 : Cwaka Primary School			
1	The total to be carried from item Page 43 of the Preliminaries and General Section for P 2 : Cwaka Primary School			
	Fixed: _____			
	Time: _____			
	Value :_____	Item		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 1
PREMILINARIES AND GENERAL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 02				
	Note:				
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014).				
	Quantity breakdown				
	In this Section No. 3 of the Bills of Quantities a breakdown of the total quantities into the various buildings is indicated below each description as follows:				
	A1 - DWG 04 - Staff Ablutions C1 - DWG 06 - Grade R Ablutions D1 - DWG 14 - Male ablutions G1 - DWG 35 - Female Ablutions				
	It should be noted that due to the "rounding off" factor marginal differences can occur between the sum of the parts to the total given in the quantity column. For pricing purposes only the amount in the quantity column is to be used.				
	EARTHWORKS (PROVISIONAL)				
	Site clearance				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site. A1 : 53 C1 : 52 D1 : 119 G1 : 82	m2	306		
	Carried to Collection			R	

	EXCAVATIONS, FILLING, ETC.				
	BULK EXCAVATIONS				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
1	Pit toilet. A1 : 6 C1 : 8 D1 : 5 G1 : 21	m3	40		
	Excavate in earth exceeding 2m deep not exceeding 4m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Pit toilet. A1 : 25 C1 : 31 D1 : 25 G1 : 62	m3	143		
	Excavations in earth of more difficult character				
3	Extra over excavations in earth for excavation in soft rock. A1 : 6 C1 : 4 D1 : 6 G1 : 18	m3	34		
4	Extra over excavations in earth for excavation in hard rock. A1 : 3 C1 : 2 D1 : 3 G1 : 9	m3	17		
	EXCAVATIONS FOR FOUNDATIONS, ETC.				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
5	Surface trenches. A1 : 5 C1 : 4 D1 : 6 G1 : 6	m3	21		
	Excavations in earth of more difficult character				
6	Extra over excavations in earth for excavation in soft rock. A1 : 1 C1 : 0 D1 : 1 G1 : 1	m3	4		
7	Extra over excavations in earth for excavation in hard rock. A1 : 1 C1 : 0 D1 : 1 G1 : 1	m3	2		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Carting away of excavated material				
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. A1 : 32 C1 : 39 D1 : 33 G1 : 68	m3	172		
	Risk of collapse of excavations				
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 11 C1 : 12 D1 : 18 G1 : 12	m2	53		
3	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 31 C1 : 34 D1 : 31 G1 : 51	m2	147		
	Working space				
4	Excavate in earth for working space exceeding 1500mm and not exceeding 3000mm deep, 500mm from the face of blockwork in the pit, for waterproofing purposes including backfilling with G7 imported material compacted in 150mm thick layers to 95% Modified AASHTO dry density. A1 : 35 C1 : 34 D1 : 31 G1 : 31	m2	131		
	Keeping excavations free of water				
5	Allow for keeping the excavations free from water.		Item		
	Filling				
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density. A1 : 2 C1 : 3 D1 : 2 G1 : 4	m3	11		
	Foundation courses				
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. A1 : 9 C1 : 10 D1 : 8 G1 : 13	m3	40		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc. A1 : 0 C1 : 0 D1 : 1 G1 : 1	m3	2		
	Compaction of surfaces				
2	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density. A1 : 35 C1 : 32 D1 : 37 G1 : 57	m2	161		
3	Scarify in-situ material to a depth of 75mm and compact to 93% Mod AASHTO density. A1 : 3 C1 : 3 D1 : 3 G1 : 3	m2	12		
	Filter fabric				
4	Grade 3 needle punched non-woven synthetic fibre filter fabric laid vertically against waterproofing membrane as backfilling proceeds. A1 : 31 C1 : 60 D1 : 43 G1 : 73	m2	207		
	Weedkillers, insecticides, etc.				
	Soil insecticide in accordance with SANS 5859				
5	Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming. A1 : 16 C1 : 13 D1 : 37 G1 : 15	m2	81		
6	To bottoms and sides of trenches. A1 : 12 C1 : 10 D1 : 5 G1 : 6	m2	33		
7	To bottoms and sides of pit excavation. A1 : 43 C1 : 50 D1 : 54 G1 : 78	m2	225		
	Tests				
8	Allow for Mod AASHTO density tests on filling.	No	16.00		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 2
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 2

EARTHWORKS (PROVISIONAL)

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	BILL No. 03				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	CONCRETE				
	Mass concrete 15MPa (19mm stone) in:				
1	Blinding beneath bases, strip footings, etc cast against excavated surfaces. A1 : 0.7 C1 : 0.9 D1 : 0.6 G1 : 1.9	m3	4.1		
	Reinforced concrete 25MPa (19mm stone) in:				
2	Slabs including beams and inverted beams. A1 : 4 C1 : 5 D1 : 4 G1 : 6	m3	19		
3	Surface beds A1 : 2 C1 : 2 D1 : 2 G1 : 5	m3	11		
4	Aprons cast in panels A1 : 1 C1 : 1 D1 : 1 G1 : 1	m3	4		
5	100 x 100mm Triangular fillets cast on top of pit Base Slab A1 : 11 C1 : 13 D1 : 17 G1 : 21	m	62		
	Surface treatment				
6	Float surface of concrete to a wood float finish. A1 : 19 C1 : 20 D1 : 24 G1 : 36	m2	99		
7	Powerfloating of concrete surface bed. A1 : 10 C1 : 10 D1 : 10 G1 : 13	m2	43		
	Carried to Collection			R	

	Test blocks and testing				
1	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	16		
	POLYSTERENE BLOCKS ETC				
	Polystrene blocks in composite slabs				
2	850 x 500mm extreme wide at the bottom, 550mm wide at the top x 110mm high polysterene block laid end to end rows A1 : 12 C1 : 12 D1 : 12 G1 : 36	No	72		
	PREFABRICATED CONCRETE RIB				
	25MPa precast reinforced concrete rib				
3	150 x 40mm high concrete rib with two 10mm high tensile reinforcing bars, in lengths not exceeding 5m. A1 : 6 C1 : 12 D1 : 9 G1 : 0	m	27		
4	150 x 40mm high concrete rib with two 10mm high tensile reinforcing bars, in lengths exceeding 5m and not exceeding 7.5m. A1 : 0 C1 : 0 D1 : 0 G1 : 27	m	27		
	FORMWORK				
	Supporting bearers to prefabricated beams				
5	Bearers propped up exceeding 1,5m high and not exceeding 3.5m high A1 : 18 C1 : 18 D1 : 18 G1 : 35	m	88		
	Permanent formwork				
6	Soffits of slabs not exceeding 250mm thick and exceeding 1.5m and not exceeding 3.5 above bearing level. A1 : 8 C1 : 8 D1 : 5 G1 : 18	m2	39		
	Carried to Collection			R	

	Rough formwork (use and waste) to concrete to:				
	Edges, risers, ends and reveals				
1	Edge, riser, etc not exceeding 300mm high. A1 : 17 C1 : 17 D1 : 22 G1 : 34	m	90		
	Openings				
2	Leave or form circular opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 5 C1 : 8 D1 : 4 G1 : 11	No	28		
3	Leave or form square opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 2 C1 : 2 D1 : 1 G1 : 4	No	9		
4	Cut or form circular opening not exceeding 1m girth through 110mm thick polystyrene block A1 : 5 C1 : 8 D1 : 3 G1 : 11	No	27		
5	Cut or form square opening not exceeding 1m girth through 110mm thick polystyrene block. A1 : 2 C1 : 2 D1 : 1 G1 : 4	No	9		
6	Cut or form circular opening not exceeding 1m girth through permanent formwork A1 : 5 C1 : 8 D1 : 3 G1 : 11	No	27		
7	Cut or form square opening not exceeding 1m girth through permanent formwork A1 : 2 C1 : 2 D1 : 1 G1 : 4	No	9		
	Movement joints				
8	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces. A1 : 17 C1 : 17 D1 : 22 G1 : 34	m	90		
9	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer. A1 : 17 C1 : 17 D1 : 22 G1 : 34	m	90		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 3
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	Slip joint not exceeding 300mm wide formed of two layers of 3 Ply malthoid laid on and including a 3:1 cement mortar bedding. A1 : 17 C1 : 17 D1 : 22 G1 : 34	m	90		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
2	16mm Diameter bars. A1 : 0.107 C1 : 0.046 D1 : 0.141 G1 : 0.058	t	0.352		
3	10mm Diameter bars. A1 : 0.174 C1 : 0.220 D1 : 0.132 G1 : 0.356	t	0.882		
	High tensile welded steel mesh reinforcement :				
4	Ref: 193 cast into concrete surfaces. A1 : 19 C1 : 20 D1 : 24 G1 : 36	m2	99		
5	Ref: 311 cast into concrete surfaces. A1 : 12 C1 : 12 D1 : 9 G1 : 27	m2	61		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 3
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 3

CONCRETE, FORMWORK & REINFORCEMENT

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	BILL No. 04				
	MASONRY				
	FOUNDATION BRICKWORK (PROVISIONAL)				
	Walls and linings in stock bricks in 5:1 cement mortar :				
1	Half brick wall. A1 : 5 C1 : 9 D1 : 5 G1 : 18	m2	37		
2	One brick wall. A1 : 30 C1 : 33 D1 : 16 G1 : 61	m2	140		
	Reinforcement to brickwork				
3	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 19 C1 : 39 D1 : 19 G1 : 78	m	155		
4	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 117 C1 : 131 D1 : 117 G1 : 238	m	603		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
5	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 4 C1 : 4 D1 : 5 G1 : 6	m2	19		
	SUPERSTRUCTURE BRICKWORK				
	Walls and linings in stock bricks in 5:1 cement mortar :				
6	Half brick wall. A1 : 8 C1 : 7 D1 : 14 G1 : 21	m2	50		
	Carried to Collection			R	

1	One brick wall. A1 : 51 C1 : 40 D1 : 49 G1 : 70	m2	210		
	Beamfilling				
2	Half brick wall. A1 : 6 C1 : 6 D1 : 6 G1 : 9	m2	27		
	BRICKWORK SUNDRIES				
	Brickwork air ventilation, etc.				
3	Extra over brickwork for cutting to form 120 x 85mm ventilation openings in 220mm wall A1 : 60 C1 : 45 D1 : 174 G1 : 231	No	510		
	Reinforcement to brickwork				
4	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 32 C1 : 28 D1 : 42 G1 : 76	m	178		
5	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 146 C1 : 108 D1 : 90 G1 : 249	m	593		
	Bagging				
6	Bag down outer face of inner skin of brick wall in 4:1 cement slurry. A1 : 51 C1 : 40 D1 : 49 G1 : 70	m2	210		
	Precast pre-stressed reinforced concrete lintols				
7	75 x 110mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 4 C1 : 8 D1 : 2 G1 : 5	m	19		
8	90 x 140mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 0 C1 : 3 D1 : 0 G1 : 0	m	3		
	Carried to Collection			R	

	Hoop iron ties, cramps, etc.				
1	1.6 x 30mm Galvanized hoop iron roof tie 1100mm long with one end wrapped around and spiked to timber the other end built a minimum of six courses deep into brickwork as the work proceeds. A1 : 8 C1 : 8 D1 : 12 G1 : 16	No	44		
2	30 x 1,2mm Galvanised hoop iron strap 800mm long shot pinned to brickwork and bent into brickwork A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
3	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 55 C1 : 46 D1 : 55 G1 : 79	m2	235		
	Face brick copings, lintols, cills, etc.				
4	Extra over brickwork for brick-on-edge header course tread including pointing to one face and top. A1 : 2 C1 : 4 D1 : 2 G1 : 2	m	10		
	Brickwork air ventilation, etc.				
5	Extra over brickwork for fair cutting to form 120 x 85mm ventilation openings in facebrick, including facing and pointing A1 : 60 C1 : 45 D1 : 174 G1 : 231	No	510		
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Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 4

MANSORY

COLLECTION

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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 4
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 05				
	WATERPROOFING				
	DAMP-PROOF COURSE				
	SHEET OR MEMBRANE WATERPROOFING				
	250 Micron "Gunplas USB" green polyethylene sheeting :				
1	Laid flat on prepared sand bed under solid floor. A1 : 18 C1 : 20 D1 : 26 G1 : 39	m2	103		
	FLASHING STRIPS				
	Elastic acrylic and rubberised bitumen compound with "waterproof membrane" applied in strict accordance with the Manufacturer's instructions :				
2	Flashing strips around 110mm diameter PVC vent pipes through steel roof sheeting. A1 : 0 C1 : 0 D1 : 0 G1 : 1	m	2		
	LIQUID WATERPROOFING				
	Two coats "ABE Brickseal"				
3	Vertically on bagged surface of brickwork. A1 : 49 C1 : 40 D1 : 49 G1 : 70	m2	208		
	MEMBRANE WATERPROOFING				
	"Duraflex" or equally approved cementitious flexible waterproofing slurry including saturation membrane with 75mm side and 100mm end laps applied in accordance with manufactures specifications				
4	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 28 D1 : 16 G1 : 45	m2	114		
	Carried to Collection			R	

	PROTECTION				
	"Abe Cote SF 356" or other equal approved epoxy tar coating on				
1	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 28 D1 : 16 G1 : 45	m2	114		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 5
WATERPROOFING
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 5

WATERPROOFING

COLLECTION

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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 5
WATERPROOFING
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 06				
	ROOF COVERINGS, ETC.				
	PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.				
	Metal roof sheeting				
	0,8mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :				
1	Roof sheeting laid to a mono-pitch secured to timber purlins at approximately 940mm centres including turning up sheet at ridge and turning down sheet at eaves. A1 : 18 C1 : 18 D1 : 25 G1 : 33	m2	94		
	Circular cutting				
2	Circular cutting on roof sheeting for ventilators, vent pipes, etc. A1 : 0 C1 : 0 D1 : 1 G1 : 3	m	5		
	Accessories, etc. to match roof sheeting				
3	Ridge capping 550mm girth. A1 : 4 C1 : 4 D1 : 6 G1 : 8	m	22		
4	Broad flute serrated closer including polyclosers. A1 : 4 C1 : 4 D1 : 6 G1 : 8	m	22		
5	Narrow flute serrated closer including polyclosers. A1 : 4 C1 : 4 D1 : 6 G1 : 8	m	22		
6	Ridge finial. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
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Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 07				
	CARPENTRY AND JOINERY				
	CARPENTRY				
	PLATE NAILED TIMBER ROOF CONSTRUCTION				
	Fixing:				
	All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to blockwork or concrete.				
	Erection certificates				
1	Contractor is to supply a roof rafters erection certificate for the building stating that the erection and installation of the roof rafters has been inspected and approved by a professional registered structural engineer. A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Purlins, bracing, etc.				
	Sawn softwood :				
2	38 x 114mm Wall plate wired down (wire ties elsewhere). A1 : 9 C1 : 9 D1 : 18 G1 : 23	m	59		
3	50 x 76mm Purlins. A1 : 22 C1 : 22 D1 : 31 G1 : 40	m	115		
4	76 x 38mm S5 Treated Timber A1 : 6 C1 : 6 D1 : 6 G1 : 11	m	29		
5	38 x 38 x 152mm Long cleat spiked to rafter foot. A1 : 8 C1 : 8 D1 : 6 G1 : 16	No	38		
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1	50 x 76 x 500mm Long sprocket spiked to timber purlin. A1 : 10 C1 : 10 D1 : 10 G1 : 10	No	40		
	Laminated S. A. Pine				
2	152 x 38mm S5 Timber Rafters A1 : 15 C1 : 15 D1 : 24 G1 : 31	m	86		
	Sundries:				
3	Hurricane clip fixed to purlin and rafter. A1 : 20 C1 : 20 D1 : 30 G1 : 40	No	110		
	JOINERY				
	Plastic, fibre cement, etc.				
	Pressed fibre-cement:				
4	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. A1 : 4 C1 : 4 D1 : 6 G1 : 8	m	22		
5	80 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc. A1 : 8 C1 : 8 D1 : 8 G1 : 8	m	32		
	TIMBER DOORS, WINDOWS ETC.				
	Wrot hardwood :				
6	44mm Thick framed, ledged, braced and battened door, size 762 x 1000mm high, comprising 44 x 180mm stiles and top rail, 22 x 180mm bottom rail and diagonal brace and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths. A1 : 0 C1 : 4 D1 : 0 G1 : 0	No	4		
	Frames and linings				
	Wrot hardwood :				
7	38 x 100mm Meranti jamb lining bolted to brickwork with and including 10 x 140mm masonry anchors at approximately 600mm centres. A1 : 0 C1 : 5 D1 : 0 G1 : 0	m	5		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 7
CARPENTRY AND JOINERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 7

CARPENTRY AND JOINERY

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 08				
	IRONMONGERY				
	IRONMONGERY TO TIMBER				
	Hinges				
1	100 x 75mm Heavy duty brass butt hinges. A1 : 0 C1 : 8 D1 : 0 G1 : 0	No	8		
	Handles				
2	100mm Chromium plated pull handle. A1 : 0 C1 : 4 D1 : 0 G1 : 0	No	4		
	IRONMONGERY TO METALWORK				
	Locksets, etc. provided with two keys and to be masterkeyed				
3	51mm brass padlock with stainless steel shackle. A1 : 2 C1 : 1 D1 : 2 G1 : 1	No	6		
	IRONMONGERY FIXED TO CONCRETE, TILING, ETC.				
	Push plates, kicking plates, indicator plates, etc.				
4	152 x 152 x 3mm Thick anodised silver aluminium sex indicator plate. A1 : 2 C1 : 2 D1 : 2 G1 : 1	No	7		
5	152 x 152 x 3mm Thick anodised silver aluminium disabled indicator plate. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	3mm Thick x 32mm high clear perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame				
6	Sign with "MALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

1	Sign with "FEMALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Door stops				
2	Black rubber door stop plugged to wall. A1 : 3 C1 : 7 D1 : 2 G1 : 6	No	18		
	Sundries				
3	50mm Plastic key tag. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 8

IRONMONGERY

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 09				
	STRUCTURAL STEEL				
	Pre-galvanised (Z450) structural steelwork (Grade 350W)				
1	100 x 50 x 20 x 2mm Cold formed lipped channel including bolting to brickwork at 910mm centres. A1 : 2 C1 : 0 D1 : 2 G1 : 5	m	9		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 9
STRUCTURAL STEEL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 10				
	METALWORK				
	Hot dipped galvanised mild steel gates				
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel pipe framing all round and two horizontal intermediate rails with mitred and welded angles, the gate filled in with 12mm diameter mild steel bars welded, at each end, vertically to perimeter and intermediate framing at not exceeding 109mm centres, the leaf fitted with a 150mm long padbolt, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 2 C1 : 2 D1 : 2 G1 : 1	No	7		
	Hot dipped galvanised mild steel mesh screen				
2	Mesh screen, size 2230mm wide x 2100mm high, formed of 32 x 32 x 2mm wall thickness square hollow section framing all round and two horizontal rails with mitred and welded angles, the framing covered with 50 x 50 x 4mm weld mesh tack welded on, and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 0 C1 : 2 D1 : 0 G1 : 0	No	2		
	Carried to Collection			R	

	Hot dipped galvanised steel cladded doors and accessories				
1	Door, size 760 x 1680mm high, formed of 19 x 19mm tubular steel perimeter framing and horizontal middle rail welded at angles and intersections, covered on one side with 0,6mm galvanised sheeting, prepainted "Golden Brown", pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with slot for and including barrel bolt, the gate fitted with and including 25mm diameter x 2120mm long pivot pipe support welded on, 150 x 38 x 3mm top bearing bolted to beam with 2 x 6mm diameter bolts, including top cap bearing bush, washers, bottom bearing bush and finishing smooth on all exposed edges, complete with all fixing brackets, bolts etc. A1 : 3 C1 : 0 D1 : 2 G1 : 6	No	11		
	Pre-galvanised steel chawl doors				
2	Single door to suit one brick wall, size 950 x 2030mm high, provided complete with integral frame, ironmongery, etc. finished with red oxide primer to receive paint (elsewhere). A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 10
METALWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 10

METALWORK

COLLECTION

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Bill No. 10
METALWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 11				
	PLASTERING				
	SCREEDS				
	Untinted granolithic screeds, etc. mixed by volume 4 parts granite chips, 1 part sand and 2 parts cement				
1	40mm Thick screed to floors and landings. A1 : 11 C1 : 11 D1 : 17 G1 : 17	m2	56		
2	25mm Thick screed to falls A1 : 3 C1 : 4 D1 : 2 G1 : 7	m2	16		
	Skirtings				
3	75mm High coved skirting. A1 : 18 C1 : 21 D1 : 27 G1 : 46	m	112		
	PLASTER				
	One coat internal 1:4 cement plaster on :				
4	Brick walls in pit. A1 : 39 C1 : 47 D1 : 25 G1 : 113	m2	224		
5	Brick walls (ICP) A1 : 76 C1 : 62 D1 : 74 G1 : 85	m2	297		
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Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 12				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	Roof gutters, rainwater pipes, etc.				
	uPVC gutter including gutter brackets				
1	125mm Half round eaves gutters on gutter brackets at 1000mm centres maximum fixed to fascias. A1 : 4 C1 : 7 D1 : 6 G1 : 8	m	25		
2	Extra over uPVC gutter for forming discharge outlet to suit 100 x 75mm downpipe. A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
3	Extra over gutter for stopped end. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
4	75mm Rainwater downpipe fixed to wall with and including proprietary holderbats. A1 : 2 C1 : 4 D1 : 4 G1 : 4	m	14		
5	Extra over rainwater downpipe for bend. A1 : 2 C1 : 2 D1 : 2 G1 : 2	No	8		
	PIPEWORK, ETC.				
	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Class 6 HDPE waterpipe				
6	22mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc. A1 : 0 C1 : 0 D1 : 0 G1 : 12	m	12		
	Carried to Collection			R	

	Extra over Class 6 HDPE pipe for fittings				
1	22mm Fittings. A1 : 0 C1 : 0 D1 : 0 G1 : 10	No	10		
	Class 2 copper pipes with straight compression fittings				
2	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc. A1 : 2 C1 : 0 D1 : 10 G1 : 0	m	12		
	Extra over copper pipes for brass compression fittings				
3	15mm Fittings. A1 : 4 C1 : 0 D1 : 10 G1 : 0	No	14		
	Extra over copper pipes for capillary fittings with soldered joints				
4	15mm Fittings. A1 : 2 C1 : 0 D1 : 4 G1 : 0	No	6		
	SOIL DRAINAGE				
	uPVC Pipes with solvent welded straight joints :				
5	40mm Pipes. A1 : 1 C1 : 0 D1 : 4 G1 : 0	m	5		
6	50mm Pipes. A1 : 1 C1 : 0 D1 : 4 G1 : 0	m	5		
	White uPVC vent pipe in single lengths :				
7	110mm Diameter vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. A1 : 12 C1 : 16 D1 : 8 G1 : 28	m	64		
	Extra over uPVC pipes for solvent welded fittings :				
8	40mm Plain bend. A1 : 2 C1 : 0 D1 : 8 G1 : 0	No	10		
9	50mm Plain bend. A1 : 2 C1 : 0 D1 : 2 G1 : 0	No	4		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	Black PVC whirlybird vent capping over the 110mm vent pipe. A1 : 3 C1 : 4 D1 : 2 G1 : 7	No	16		
	Inspection chambers, catch pits, etc.				
	Light Composite covers and frames				
2	450 x 450mm x 8.6 kg EN124 A15 light composite manhole cover and frame inclusive of two stainless steel screws lock fasten cover with frame and two vented holes designed for the easy lifting and also has the function for draining, including fixing frame on concrete, A1 : 2 C1 : 2 D1 : 1 G1 : 4	No	9		
	SANITARY FITTINGS, TANKS, GEYSERS, ETC.				
	Plastic sanitaryware				
3	"222 AP" VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. A1 : 3 C1 : 4 D1 : 2 G1 : 7	No	16		
4	"507AP" Granite bowl urinal fitted with "496AP" waterless urinal waste fitting hung on wall on and including proprietary brackets. A1 : 1 C1 : 0 D1 : 4 G1 : 0	No	5		
5	"382AP" Basin, size 570 x 400 x 245mm, provided complete with two tapholes and built in soap holder, hung on wall on and including proprietary wall brackets. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Sanitary fitting sundries				
6	Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall. A1 : 3 C1 : 4 D1 : 2 G1 : 7	No	16		
7	Heavy-duty double-flap hinged toilet seat and cover. A1 : 3 C1 : 4 D1 : 2 G1 : 7	No	16		
	Grade 304 stainless steel ware :				
8	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
	Tanks, geysers, etc.				
	Rainwater tanks				
2	2500 Litre polyethylene rotomoulded vertical water storage tank complete, on 1600 x 1600 tank stand, including lid, fitted with and including 50 x 15mm reducer 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. (Note: tanks to be filled with water before Practical Completion). A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Galvanised Steel Pipe				
3	22mm galvanised steel pipe A1 : 1 C1 : 1 D1 : 1 G1 : 1	m	4		
	Taps, valves, etc.				
	Solid cast brass taps, valves, etc.				
4	"Cobra KM2-200" or other equal approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
5	15mm Ball-o-stop valve. A1 : 1 C1 : 0 D1 : 4 G1 : 0	No	5		
6	22mm Gate valve A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
7	22mm Non Return valve A1 : 1 C1 : 1 D1 : 1 G1 : 1	No	4		
	Waste unions, traps, etc.				
	Carried to Collection			R	

	Outlets, traps, etc :				
1	50mm Chromium plated PVC urinal bottle trap. A1 : 1 C1 : 0 D1 : 4 G1 : 0	No	5		
2	38mm Chromium plated brass slotted basin waste outlet with plug, chain and chain stay. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
3	38mm PVC Mini P-trap. A1 : 0 C1 : 0 D1 : 0 G1 : 1	No	1		
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Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 12

PLUMBING AND DRAINAGE (PROVISIONAL)

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Item No			Quantity	Rate	Amount
	SECTION No. 3 - CWAKA PRIMARY SCHOOL				
	BILL No. 13				
	PAINTWORK				
	PAINT ON CONCRETE, PLASTER, ETC				
	Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on :				
1	Internal smooth plastered walls. A1 : 76 C1 : 68 D1 : 74 G1 : 127	m2	345		
2	Internal smooth plastered wall in narrow widths not exceeding 300mm wide A1 : 0 C1 : 1 D1 : 1 G1 : 1	m2	3		
	Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:				
3	Concrete floated or screeded floors A1 : 11 C1 : 11 D1 : 17 G1 : 17	m2	56		
4	Granolithic skirting not exceeding 300mm girth. A1 : 20 C1 : 25 D1 : 29 G1 : 47	m	121		
	PAINT ON TIMBER				
	Prime or oil				
5	Backs of frames or linings not exceeding 300mm girth. A1 : 0 C1 : 10 D1 : 0 G1 : 0	m	10		
6	Doors A1 : 0 C1 : 6 D1 : 0 G1 : 0	m2	6		
	Carried to Collection			R	

	PAINT ON METALWORK				
	Prepare and apply one coat bituminous paint on :				
1	Backs of steel door frames. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
	One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :				
2	Hot dipped galvanised steel gates. A1 : 4 C1 : 2 D1 : 4 G1 : 2	m2	12		
3	Hot dipped galvanised steel mesh screens. A1 : 0 C1 : 7 D1 : 0 G1 : 0	m2	7		
	One coat red oxide primer, one coat universal undercoat and two coats gloss enamel paint on :				
4	Pre-galvanised steel doors. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
5	Pre-galvanised steel door frames. A1 : 0 C1 : 0 D1 : 0 G1 : 2	m2	2		
	PAINT ON FIBRE-CEMENT				
	Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :				
6	External fibre cement fascia boarding including priming cover strips. A1 : 1 C1 : 1 D1 : 1 G1 : 2	m2	5		
7	External fibre cement bargeboard including priming cover strips. A1 : 2 C1 : 2 D1 : 2 G1 : 2	m2	8		
	PAINT ON PVC				
	Prepare and apply two coats black PVA paint on:				
8	Vent pipes. A1 : 1 C1 : 2 D1 : 1 G1 : 3	m2	7		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 13
PAINTWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 13

PAINTWORK

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Bill No. 13
PAINTWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 3 - EXTERNAL WORKS - CWAKA PRIMARY SCHOOL				
	BILL No. 14				
	EXTERNAL WORKS (PROVISIONAL)				
	Note:				
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).				
	DEMOLITIONS				
	Demolitions				
	Brickwork building structures				
1	Demolish and cart away single storey toilet block complete, size on plan 9000mm long x 3000mm wide x approximately 2400mm high, comprised of corrugated iron roof covering on mono-pitch timber rafters, concrete block walls with timber doors, ground floor concrete surface bed with granolithic floor covering, sanitary fittings, etc. including grubbing up foundations and backfilling holes with material from the stockpiles on site.	No	2		
	Pit toilets				
2	Allow for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out.	No	2		
3	Allow for breaking down and removing from site entire pit latrine structure including any structure that may be inside the pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). Backfill existing hole with imported filling in max 150mm layers and compact to 95% MOD AASHTO density.	No	2		
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	THE FOLLOWING IN WALKWAYS, RAMPS, ETC.				
	EARTHWORKS				
	Site clearance				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	120		
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Reduced levels under solid floors.	m3	24		
	Carting away of excavated material				
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24		
	Filling				
4	150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs.	m3	18		
	Prescribed Testing				
5	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	Reinforced concrete 25MPa (19mm stone) in:				
6	Paving in panels including any necessary formwork.	m3	12		
7	Ramps.	m3	0.4		
	Surface treatment				
8	Float surface of concrete to a wood float finish.	m2	120		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Test blocks and testing				
1	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	2		
	Movement joints				
2	10mm Thick "Jointex" closed cell polyethylene joint filler with hinged blocking piece between concrete surfaces not exceeding 300mm wide.	m	33		
3	Remove hinged blocking piece and fill 10 x 15mm cavity with an approved 2 part polysulphide sealer.	m	33		
	FORMWORK				
	Edges, risers, ends and reveals				
4	Edge, riser, etc not exceeding 300mm high.	m	200		
	Reinforcement				
5	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	120		
	THE FOLLOWING IN STORMWATER CUT OFF DRAIN / EARTH BERM				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
6	Reduced levels	m3	30		
	Filling				
7	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	30		
	Compaction of surfaces				
8	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	60		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Grassing, ground cover, etc.				
1	Kikuyu turf (sods or rolls) instant lawn 25 to 40mm thick, imported from commercial sources, laid firmly with staggered joints within three days of being lifted.	m2	50		
	THE FOLLOWING IN CONCRETE CHANNELS, ETC.				
	EARTHWORKS				
2	Holes	m3	0.3		
3	Surface trenches.	m3	1		
	Carting away of excavated material				
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	1		
	Sundries				
6	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	3		
	Prescribed Testing				
7	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	4		
	FORMWORK				
	Edges, risers, ends and reveals				
8	Edge, riser, etc not exceeding 300mm high.	m	6		
	Grooves, channels, mortices, etc.				
9	700 x 150mm V-Channels in top	m	3		
	Carried to Collection			R	

1	1500 x 750 x 150mm Concrete V-Channel Spreader	No	1		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
2	12mm Diameter bars.	t	0.007		
	Reinforcement				
3	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	3		
	THE FOLLOWING IN STAND PIPE BIP TAP ETC.				
	EARTHWORKS				
4	Holes	m3	1		
5	Surface trenches.	m3	6		
	Carting away of excavated material				
6	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
	Risk of collapse of excavations				
7	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	7		
	Keeping excavations free of water				
8	Allow for keeping the excavations free from water.		Item		
	Filling				
9	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	6		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Foundation courses				
1	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	0.3		
	Sundries				
2	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	2		
	Prescribed Testing				
3	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	CONCRETE (Labour intensive)				
	Mass concrete 25MPa (19mm stone) in:				
4	Strip foundations cast against excavated surfaces.	m3	2		
	Reinforced concrete 25MPa (19mm stone) in:				
5	Slabs	m3	1		
6	110mm PVC Blue Water Pipe	m3	1		
	FORMWORK				
	Edges, risers, ends and reveals				
7	Edge, riser, etc not exceeding 300mm high.	m	3		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
8	12mm Diameter bars.	t	0.003		
	PIPEWORK, ETC.				
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Class 2 copper pipes with straight compression fittings				
1	22mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	46		
	Extra over copper pipes for brass compression fittings				
2	22mm Fittings.	No	12		
	uPVC Pipes				
3	110mm Blue Water Pipe.	m	7		
	SANITARY FITTINGS				
	Solid cast brass taps, valves, etc.				
4	Bib Tap or Similar approved	No	4		
	THE FOLLOWING IN SECURITY FENCING				
	SECURITY FENCING				
	Site clearance				
5	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs, etc., not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	40		
	Fencing				
6	4mm galvanised straining wires (evenly spaced) secured to straining posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to and inclusing 12mm diameter straining eye bolts.	m	40		
	Carried to Collection			R	

1	Fencing formed of 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence 1.8m high with vertical wires facing outwards secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (elsewhere).	m	40		
	<u>Hot dipped galvanised steel posts, etc.</u>				
2	60mm Diameter x 2.5mm wall thickness intermediate fencing post, 2700mm long fitted with pressed steel mushroom cap, the post fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base including all necessary excavations, backfilling, concrete, etc.	No	12		
3	100mm Diameter x 3mm wall thickness end or corner post 2700mm long fitted with pressed steel mushroom cap and one 60mm diameter x 2mm wall thickness raking stay, the post and stay fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	6		
4	100mm Diameter x 3mm wall thickness intermediate straining or corner post 2700mm long fitted with pressed steel mushroom cap, but fitted with two 60mm diameter x 2mm wall thickness galvanised steel raking stays, the post and stays fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	2		
	Carried to Collection			R	

SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

Bill No. 14

EXTERNAL WORKS

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Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

SECTION SUMMARY - SECTION NO.3 - CWAKA PRIMARY SCHOOL

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3	CONCRETE, FORMWORK & REINFORCEMENT	109	
4	MANSORY	113	
5	WATERPROOFING	116	
6	ROOF COVERINGS, ETC	117	
7	CARPENTRY AND JOINERY	120	
8	IRONMONGERY	123	
9	STRUCTURAL STEEL	124	
10	METALWORK	127	
11	PLASTERING	128	
12	PLUMBING AND DRAINAGE (PROVISIONAL)	134	
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
Bill No. 14
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 3

SECTION NO.3 - CWAKA PRIMARY SCHOOL

SECTION SUMMARY - SECTION NO.3 - CWAKA PRIMARY SCHOOL

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	CONTINGENCY PROVISIONS			
	The Tenderer is to allow hereunder for 5 (Five) percent of the Nett Builders Work Sub-Total to be used as a Budgetary Provision for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.	%		
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SECTION NO.3 - CWAKA PRIMARY SCHOOL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No		Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL			
	BILL No. 01			
	PRELIMINARIES AND GENERAL			
	NOTE: SECTION NO.1 : PRELIMINARIES AND GENERAL : To be used as a pricing guide line for the requirements of each school in separate locations.			
	P1 : Patekile Primary School			
1	The total to be carried from item Page 43 of the Preliminaries and General Section for P 1 : Patekile Primary School			
	Fixed: _____			
	Time: _____			
	Value :_____	Item		
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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 1
PREMILINARIES AND GENERAL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 2				
	ALTERATIONS, DEMOLITIONS, ETC (ALL TRADES).				
	Note:				
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).				
	ALTERATIONS				
	IRONMONGERY				
	General ironmongery				
1	Service or replace existing door locks, hinges etc, and leave door in smooth operation.	No	10		
	EXTERNAL WORKS				
	Aprons and walkways				
2	Take up, clean off all algae, dirt, etc. on concrete aprons	m	20		
	REFURBISHMENT, PREPARATORY WORKS, ETC.				
	Refurbishment by cleaning				
	Floors, etc.				
3	High pressure clean granolithic screed or concrete flooring.	m2	90		
	Carried to Collection			R	

	Plastic Toilet Seats, etc.				
1	Thoroughly clean existing plastic toilet seats, urinals etc. with suitable toilet seat sanitizer and leave seats in hygienic condition.	No	10		
	General repairwork				
2	Repair crack in horizontal top surface of existing concrete floors using approved epoxy based injection type repair grout mixed and applied in strict accordance with the Manufacturer's instructions.	m	5		
	METALWORK				
	Hot dipped galvanised mild steel gates				
3	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel pipe framing all round and two horizontal intermediate rails with mitred and welded angles, the gate filled in with 12mm diameter mild steel bars welded, at each end, vertically to perimeter and intermediate framing at not exceeding 109mm centres, the leaf fitted with a 150mm long padbolt, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws.	No	1		
	PAINTWORK				
	REDECORATION OF EXISTING				
	PREVIOUSLY PAINTED PVC				
	Prepare and apply two coats black PVA paint on:				
4	Vent pipes.	m2	7		
	EXTERNAL WORKS				
	Carried to Collection			R	

	Pit toilets				
1	Allow for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out.	No	10		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 2
ALTERATIONS, DEMOLITIONS, ETC.
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 2

ALTERATIONS, DEMOLITIONS, ETC.

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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 2
ALTERATIONS, DEMOLITIONS, ETC.
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 02				
	Note:				
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014).				
	Quantity breakdown				
	In this Section No. 4 of the Bills of Quantities a breakdown of the total quantities into the various buildings is indicated below each description as follows:				
	A1 - DWG 04 - Staff Ablutions C1 - DWG 07B - Grade R Ablutions				
	It should be noted that due to the "rounding off" factor marginal differences can occur between the sum of the parts to the total given in the quantity column. For pricing purposes only the amount in the quantity column is to be used.				
	EARTHWORKS (PROVISIONAL)				
	Site clearance				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site. A1 : 53 C1 : 47 D1 : 0 G1 : 0	m2	100		
	Carried to Collection			R	

	EXCAVATIONS, FILLING, ETC.				
	BULK EXCAVATIONS				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
1	Pit toilet. A1 : 6 C1 : 7 D1 : 0 G1 : 0	m3	13		
	Excavate in earth exceeding 2m deep not exceeding 4m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Pit toilet. A1 : 25 C1 : 32 D1 : 0 G1 : 0	m3	57		
	Excavations in earth of more difficult character				
3	Extra over excavations in earth for excavation in soft rock. A1 : 6 C1 : 4 D1 : 0 G1 : 0	m3	11		
4	Extra over excavations in earth for excavation in hard rock. A1 : 3 C1 : 2 D1 : 0 G1 : 0	m3	5		
	EXCAVATIONS FOR FOUNDATIONS, ETC.				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
5	Surface trenches. A1 : 5 C1 : 4 D1 : 0 G1 : 0	m3	9		
	Excavations in earth of more difficult character				
6	Extra over excavations in earth for excavation in soft rock. A1 : 1 C1 : 0 D1 : 0 G1 : 0	m3	1		
7	Extra over excavations in earth for excavation in hard rock. A1 : 1 C1 : 0 D1 : 0 G1 : 0	m3	1		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 3
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Carting away of excavated material				
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. A1 : 32 C1 : 39 D1 : 0 G1 : 0	m3	71		
	Risk of collapse of excavations				
2	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 11 C1 : 11 D1 : 0 G1 : 0	m2	22		
3	Allow for risk of collapse to sides of excavations exceeding 1.5m deep including all necessary timber shoring, etc. A1 : 31 C1 : 35 D1 : 0 G1 : 0	m2	66		
	Working space				
4	Excavate in earth for working space exceeding 1500mm and not exceeding 3000mm deep, 500mm from the face of blockwork in the pit, for waterproofing purposes including backfilling with G7 imported material compacted in 150mm thick layers to 95% Modified AASHTO dry density. A1 : 35 C1 : 35 D1 : 0 G1 : 0	m2	70		
	Keeping excavations free of water				
5	Allow for keeping the excavations free from water.		Item		
	Filling				
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density. A1 : 2 C1 : 3 D1 : 0 G1 : 0	m3	5		
	Foundation courses				
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. A1 : 9 C1 : 9 D1 : 0 G1 : 0	m3	18		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 3
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	50mm Thick layer of approved river sand supplied by the Contractor spread and levelled under floors, etc. A1 : 0.3 C1 : 0.2 D1 : 0.0 G1 : 0.0	m3	0.5		
	Compaction of surfaces				
2	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density. A1 : 35 C1 : 28 D1 : 0 G1 : 0	m2	63		
3	Scarify in-situ material to a depth of 75mm and compact to 93% Mod AASHTO density. A1 : 3 C1 : 3 D1 : 0 G1 : 0	m2	6		
	Filter fabric				
4	Grade 3 needle punched non-woven synthetic fibre filter fabric laid vertically against waterproofing membrane as backfilling proceeds. A1 : 31 C1 : 51 D1 : 0 G1 : 0	m2	82		
	Weedkillers, insecticides, etc.				
	Soil insecticide in accordance with SANS 5859				
5	Under floors, etc. including forming and poisoning shallow furrows against all foundation walls, filling in furrows and ramming. A1 : 16 C1 : 14 D1 : 0 G1 : 0	m2	30		
6	To bottoms and sides of trenches. A1 : 12 C1 : 9 D1 : 0 G1 : 0	m2	21		
7	To bottoms and sides of pit excavation. A1 : 43 C1 : 51 D1 : 0 G1 : 0	m2	94		
	Tests				
8	Allow for Mod AASHTO density tests on filling.	No	8.00		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 3
EARTHWORKS (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 3

EARTHWORKS (PROVISIONAL)

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	BILL No. 03				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	CONCRETE				
	Mass concrete 15MPa (19mm stone) in:				
1	Blinding beneath bases, strip footings, etc cast against excavated surfaces. A1 : 0.7 C1 : 0.8 D1 : 0.0 G1 : 0.0	m3	1.5		
	Reinforced concrete 25MPa (19mm stone) in:				
2	Slabs including beams and inverted beams. A1 : 4 C1 : 4 D1 : 0 G1 : 0	m3	8		
3	Surface beds A1 : 2 C1 : 1 D1 : 0 G1 : 0	m3	3		
4	Aprons cast in panels A1 : 1 C1 : 1 D1 : 0 G1 : 0	m3	2		
5	100 x 100mm Triangular fillets cast on top of pit Base Slab A1 : 11 C1 : 14 D1 : 0 G1 : 0	m	25		
	Surface treatment				
6	Float surface of concrete to a wood float finish. A1 : 19 C1 : 16 D1 : 0 G1 : 0	m2	35		
7	Powerfloating of concrete surface bed. A1 : 10 C1 : 10 D1 : 0 G1 : 0	m2	20		
	Carried to Collection			R	

	Test blocks and testing				
1	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	8		
	POLYSTERENE BLOCKS ETC				
	Polystrene blocks in composite slabs				
2	850 x 500mm extreme wide at the bottom, 550mm wide at the top x 110mm high polysterene block laid end to end rows A1 : 12 C1 : 20 D1 : 0 G1 : 0	No	32		
	PREFABRICATED CONCRETE RIB				
	25MPa precast reinforced concrete rib				
3	150 x 40mm high concrete rib with two 10mm high tensile reinforcing bars, in lengths not exceeding 5m. A1 : 8 C1 : 15 D1 : 0 G1 : 0	m	23		
	FORMWORK				
	Supporting bearers to prefabricated beams				
4	Bearers propped up exceeding 1,5m high and not exceeding 3.5m high A1 : 18 C1 : 18 D1 : 0 G1 : 0	m	35		
	Permanent formwork				
5	Soffits of slabs not exceeding 250mm thick and exceeding 1.5m and not exceeding 3.5 above bearing level. A1 : 8 C1 : 10 D1 : 0 G1 : 0	m2	18		
	Rough formwork (use and waste) to concrete to:				
	Edges, risers, ends and reveals				
6	Edge, riser, etc not exceeding 300mm high. A1 : 17 C1 : 13 D1 : 0 G1 : 0	m	30		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 4
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Openings				
1	Leave or form circular opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 5 C1 : 6 D1 : 0 G1 : 0	No	11		
2	Leave or form square opening not exceeding 1m girth through 60mm thick reinforced concrete slab. A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
3	Cut or form circular opening not exceeding 1m girth through 110mm thick polystyrene block A1 : 5 C1 : 6 D1 : 0 G1 : 0	No	11		
4	Cut or form square opening not exceeding 1m girth through 110mm thick polystyrene block. A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
5	Cut or form circular opening not exceeding 1m girth through permanent formwork A1 : 5 C1 : 6 D1 : 0 G1 : 0	No	11		
6	Cut or form square opening not exceeding 1m girth through permanent formwork A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
	Movement joints				
7	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces. A1 : 17 C1 : 13 D1 : 0 G1 : 0	m	30		
8	Remove 10 x 15mm hinged blocking piece, insert polycord bond breaker and seal with an approved 2 part polysulphide sealer. A1 : 17 C1 : 13 D1 : 0 G1 : 0	m	30		
9	Slip joint not exceeding 300mm wide formed of two layers of 3 Ply malthoid laid on and including a 3:1 cement mortar bedding. A1 : 17 C1 : 13 D1 : 0 G1 : 0	m	30		
	REINFORCEMENT (PROVISIONAL)				
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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 4
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

	<u>High tensile rod reinforcement to structural concrete work</u>			
1	16mm Diameter bars. A1 : 0.107 C1 : 0.076 D1 : 0.000 G1 : 0.000	t	0.183	
2	10mm Diameter bars. A1 : 0.174 C1 : 0.173 D1 : 0.000 G1 : 0.000	t	0.347	
	<u>High tensile welded steel mesh reinforcement :</u>			
3	Ref: 193 cast into concrete surfaces. A1 : 19 C1 : 16 D1 : 0 G1 : 0	m2	35	
4	Ref: 311 cast into concrete surfaces. A1 : 12 C1 : 15 D1 : 0 G1 : 0	m2	28	
	Carried to Collection			R

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 4
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 4

CONCRETE, FORMWORK & REINFORCEMENT

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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 4
CONCRETE, FORMWORK & REINFORCEMENT
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
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	BILL No. 04				
	MASONRY				
	FOUNDATION BRICKWORK (PROVISIONAL)				
	Walls and linings in stock bricks in 5:1 cement mortar :				
1	Half brick wall. A1 : 5 C1 : 9 D1 : 0 G1 : 0	m2	14		
2	One brick wall. A1 : 30 C1 : 24 D1 : 0 G1 : 0	m2	54		
	Reinforcement to brickwork				
3	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 19 C1 : 39 D1 : 0 G1 : 0	m	58		
4	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 117 C1 : 94 D1 : 0 G1 : 0	m	211		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
5	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 4 C1 : 4 D1 : 0 G1 : 0	m2	8		
	SUPERSTRUCTURE BRICKWORK				
	Walls and linings in stock bricks in 5:1 cement mortar :				
6	Half brick wall. A1 : 8 C1 : 5 D1 : 0 G1 : 0	m2	13		
	Carried to Collection			R	

1	One brick wall. A1 : 51 C1 : 33 D1 : 0 G1 : 0	m2	84	
	Beamfilling			
2	Half brick wall. A1 : 6 C1 : 5 D1 : 0 G1 : 0	m2	11	
	BRICKWORK SUNDRIES			
	Brickwork air ventilation, etc.			
3	Extra over brickwork for cutting to form 120 x 85mm ventilation openings in 220mm wall A1 : 60 C1 : 60 D1 : 0 G1 : 0	No	120	
	Reinforcement to brickwork			
4	Galvanised brick reinforcement 75mm wide built horizontally into brickwork. A1 : 32 C1 : 19 D1 : 0 G1 : 0	m	51	
5	Galvanised brick reinforcement 150mm wide built horizontally into brickwork. A1 : 146 C1 : 65 D1 : 0 G1 : 0	m	211	
	Bagging			
6	Bag down outer face of inner skin of brick wall in 4:1 cement slurry. A1 : 51 C1 : 33 D1 : 0 G1 : 0	m2	84	
	Precast pre-stressed reinforced concrete lintols			
7	75 x 110mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 4 C1 : 5 D1 : 0 G1 : 0	m	9	
8	90 x 140mm Lintol not exceeding 3m long, built at both ends into brickwork over opening. A1 : 0 C1 : 3 D1 : 0 G1 : 0	m	3	
	Carried to Collection			R

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 5
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Hoop iron ties, cramps, etc.				
1	1.6 x 30mm Galvanized hoop iron roof tie 1100mm long with one end wrapped around and spiked to timber the other end built a minimum of six courses deep into brickwork as the work proceeds. A1 : 8 C1 : 11 D1 : 0 G1 : 0	No	19		
2	30 x 1,2mm Galvanised hoop iron strap 800mm long shot pinned to brickwork and bent into brickwork A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
	EXTERNAL FACE BRICKWORK				
	Allow the Prime Cost of R5 500.00 (Five Thousand Five Hundred Rand) per thousand excluding Vat for Rust Gold face bricks delivered and customer self off loaded to site, pointed with 10mm square vertical and horizontal joints				
3	Extra over ordinary brickwork for facing and pointing in stretcher bond. A1 : 55 C1 : 37 D1 : 0 G1 : 0	m2	92		
	Face brick copings, lintols, cills, etc.				
4	Extra over brickwork for brick-on-edge header course tread including pointing to one face and top. A1 : 2 C1 : 3 D1 : 0 G1 : 0	m	5		
	Brickwork air ventilation, etc.				
5	Extra over brickwork for fair cutting to form 120 x 85mm ventilation openings in facebrick, including facing and pointing A1 : 60 C1 : 60 D1 : 0 G1 : 0	No	120		
	Carried to Collection			R	

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 5

MANSORY

COLLECTION

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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 5
MANSORY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 05				
	WATERPROOFING				
	DAMP-PROOF COURSE				
	SHEET OR MEMBRANE WATERPROOFING				
	250 Micron "Gunplas USB" green polyethylene sheeting :				
1	Laid flat on prepared sand bed under solid floor. A1 : 18 C1 : 20 D1 : 0 G1 : 0	m2	38		
	FLASHING STRIPS				
	Elastic acrylic and rubberised bitumen compound with "waterproof membrane" applied in strict accordance with the Manufacturer's instructions :				
2	Flashing strips around 110mm diameter PVC vent pipes through steel roof sheeting. A1 : 0 C1 : 0 D1 : 0 G1 : 0	m	1		
	LIQUID WATERPROOFING				
	Two coats "ABE Brickseal"				
3	Vertically on bagged surface of brickwork. A1 : 49 C1 : 32 D1 : 0 G1 : 0	m2	81		
	Carried to Collection			R	

	MEMBRANE WATERPROOFING				
	"Duraflex" or equally approved cementitious flexible waterproofing slurry including saturation membrane with 75mm side and 100mm end laps applied in accordance with manufactures specifications				
1	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 24 D1 : 0 G1 : 0	m2	49		
	PROTECTION				
	"Abe Cote SF 356" or other equal approved epoxy tar coating on				
2	Vertical surfaces of plastered brickwork. A1 : 25 C1 : 24 D1 : 0 G1 : 0	m2	49		
	Carried to Collection			R	

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 6

WATERPROOFING

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 06				
	ROOF COVERINGS, ETC.				
	PROFILED SHEETING OF METAL, FIBRE CEMENT, PLASTIC, ETC.				
	Metal roof sheeting				
	0,8mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :				
1	Roof sheeting laid to a mono-pitch secured to timber purlins at approximately 940mm centres including turning up sheet at ridge and turning down sheet at eaves. A1 : 18 C1 : 14 D1 : 0 G1 : 0	m2	32		
	Circular cutting				
2	Circular cutting on roof sheeting for ventilators, vent pipes, etc. A1 : 0 C1 : 2 D1 : 0 G1 : 0	m	2		
	Accessories, etc. to match roof sheeting				
3	Ridge capping 550mm girth. A1 : 4 C1 : 3 D1 : 0 G1 : 0	m	7		
4	Broad flute serrated closer including polyclosers. A1 : 4 C1 : 3 D1 : 0 G1 : 0	m	7		
5	Narrow flute serrated closer including polyclosers. A1 : 4 C1 : 3 D1 : 0 G1 : 0	m	7		
6	Ridge finial. A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 7
ROOF COVERINGS, ETC
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 07				
	CARPENTRY AND JOINERY				
	CARPENTRY				
	PLATE NAILED TIMBER ROOF CONSTRUCTION				
	Fixing:				
	All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to blockwork or concrete.				
	Erection certificates				
1	Contractor is to supply a roof rafters erection certificate for the building stating that the erection and installation of the roof rafters has been inspected and approved by a professional registered structural engineer. A1 : 1 C1 : 1 D1 : 0 G1 : 0	No	2		
	Purlins, bracing, etc.				
	Sawn softwood :				
2	38 x 114mm Wall plate wired down (wire ties elsewhere). A1 : 9 C1 : 13 D1 : 0 G1 : 0	m	22		
3	50 x 76mm Purlins. A1 : 22 C1 : 17 D1 : 0 G1 : 0	m	39		
4	76 x 38mm S5 Treated Timber A1 : 6 C1 : 5 D1 : 0 G1 : 0	m	11		
5	38 x 38 x 152mm Long cleat spiked to rafter foot. A1 : 8 C1 : 4 D1 : 0 G1 : 0	No	12		
	Carried to Collection			R	

1	50 x 76 x 500mm Long sprocket spiked to timber purlin. A1 : 10 C1 : 10 D1 : 0 G1 : 0	No	20		
	Laminated S. A. Pine				
2	152 x 38mm S5 Timber Rafters A1 : 15 C1 : 15 D1 : 0 G1 : 0	m	30		
	Sundries:				
3	Hurricane clip fixed to purlin and rafter. A1 : 20 C1 : 20 D1 : 0 G1 : 0	No	40		
	JOINERY				
	Plastic, fibre cement, etc.				
	Pressed fibre-cement:				
4	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. A1 : 4 C1 : 3 D1 : 0 G1 : 0	m	7		
5	80 x 275mm Barge board drilled and brass screwed to timber rafter including galvanised steel H-profile jointing strips, etc. A1 : 8 C1 : 8 D1 : 0 G1 : 0	m	16		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 8
CARPENTRY AND JOINERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

TIMBER DOORS, WINDOWS ETC.

Wrot hardwood :

1	44mm Thick framed, ledged, braced and battened door, size 762 x 1000mm high, comprising 44 x 180mm stiles and top rail, 22 x 180mm bottom rail and diagonal brace and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths. A1 : 0 C1 : 3 D1 : 0 G1 : 0	No	3		

Frames and linings

Wrot hardwood :

2	38 x 100mm Meranti jamb lining bolted to brickwork with and including 10 x 140mm masonry anchors at approximately 600mm centres. A1 : 0 C1 : 4 D1 : 0 G1 : 0	m	4		

Carried to Collection R

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 8

CARPENTRY AND JOINERY

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 08				
	IRONMONGERY				
	IRONMONGERY TO TIMBER				
	Hinges				
1	100 x 75mm Heavy duty brass butt hinges. A1 : 0 C1 : 6 D1 : 0 G1 : 0	No	6		
	Handles				
2	100mm Chromium plated pull handle. A1 : 0 C1 : 3 D1 : 0 G1 : 0	No	3		
	IRONMONGERY TO METALWORK				
	Locksets, etc. provided with two keys and to be masterkeyed				
3	51mm brass padlock with stainless steel shackle. A1 : 2 C1 : 1 D1 : 0 G1 : 0	No	3		
	IRONMONGERY FIXED TO CONCRETE, TILING, ETC.				
	Push plates, kicking plates, indicator plates, etc.				
4	152 x 152 x 3mm Thick anodised silver aluminium sex indicator plate. A1 : 2 C1 : 1 D1 : 0 G1 : 0	No	3		
	3mm Thick x 32mm high clear perspex signs with white painted numerals or letters, countersunk tap screwed to steel door frame				
5	Sign with "MALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
6	Sign with "FEMALE STAFF" enscribed. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

	Door stops				
1	Black rubber door stop plugged to wall. A1 : 3 C1 : 3 D1 : 0 G1 : 0	No	6		
	Sundries				
2	50mm Plastic key tag. A1 : 2 C1 : 1 D1 : 0 G1 : 0	No	3		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 9
IRONMONGERY
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 9

IRONMONGERY

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 09				
	STRUCTURAL STEEL				
	Pre-galvanised (Z450) structural steelwork (Grade 350W)				
1	100 x 50 x 20 x 2mm Cold formed lipped channel including bolting to brickwork at 910mm centres. A1 : 2 C1 : 0 D1 : 0 G1 : 0	m	2		
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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 10
STRUCTURAL STEEL
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 10				
	METALWORK				
	Hot dipped galvanised mild steel gates				
1	Single gate, size 900mm wide x 2050mm high, the leaf formed of 25 x 25 x 2mm wall thickness mild steel pipe framing all round and two horizontal intermediate rails with mitred and welded angles, the gate filled in with 12mm diameter mild steel bars welded, at each end, vertically to perimeter and intermediate framing at not exceeding 109mm centres, the leaf fitted with a 150mm long padbolt, the leaf to receive hasp and staple formed of 40 x 6mm mild steel flat bar welded onto frames and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 2 C1 : 1 D1 : 0 G1 : 0	No	3		
	Hot dipped galvanised mild steel mesh screen				
2	Mesh screen, size 2230mm wide x 2100mm high, formed of 32 x 32 x 2mm wall thickness square hollow section framing all round and two horizontal rails with mitred and welded angles, the framing covered with 50 x 50 x 4mm weld mesh tack welded on, and including fitting with two 50 x 10mm flat bar tee brackets and 16mm round bar pin hinges, twice bolted to wall with and including M16 x 95mm galvanised coach screws. A1 : 0 C1 : 1 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

	Hot dipped galvanised steel cladded doors and accessories				
1	Door, size 760 x 1680mm high, formed of 19 x 19mm tubular steel perimeter framing and horizontal middle rail welded at angles and intersections, covered on one side with 0,6mm galvanised sheeting, prepainted "Golden Brown", pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with slot for and including barrel bolt, the gate fitted with and including 25mm diameter x 2120mm long pivot pipe support welded on, 150 x 38 x 3mm top bearing bolted to beam with 2 x 6mm diameter bolts, including top cap bearing bush, washers, bottom bearing bush and finishing smooth on all exposed edges, complete with all fixing brackets, bolts etc. A1 : 3 C1 : 0 D1 : 0 G1 : 0	No	3	
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 11
METALWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 11

METALWORK

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 11				
	PLASTERING				
	SCREEDS				
	Untinted granolithic screeds, etc. mixed by volume 4 parts granite chips, 1 part sand and 2 parts cement				
1	40mm Thick screed to floors and landings. A1 : 11 C1 : 6 D1 : 0 G1 : 0	m2	17		
2	25mm Thick screed to falls A1 : 3 C1 : 3 D1 : 0 G1 : 0	m2	6		
	Skirtings				
3	75mm High coved skirting. A1 : 18 C1 : 16 D1 : 0 G1 : 0	m	34		
	PLASTER				
	One coat internal 1:4 cement plaster on :				
4	Brick walls in pit. A1 : 39 C1 : 32 D1 : 0 G1 : 0	m2	71		
5	Brick walls (ICP) A1 : 76 C1 : 48 D1 : 0 G1 : 0	m2	124		
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SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 12
PLASTERING
CWAKA PS, LANGALETHU PS & PATEKILE PS

Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 12				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	Roof gutters, rainwater pipes, etc.				
	uPVC gutter including gutter brackets				
1	125mm Half round eaves gutters on gutter brackets at 1000mm centres maximum fixed to fascias. A1 : 4 C1 : 3 D1 : 0 G1 : 0	m	7		
2	Extra over uPVC gutter for forming discharge outlet to suit 100 x 75mm downpipe. A1 : 1 C1 : 1 D1 : 0 G1 : 0	No	2		
3	Extra over gutter for stopped end. A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
4	75mm Rainwater downpipe fixed to wall with and including proprietary holderbats. A1 : 2 C1 : 4 D1 : 0 G1 : 0	m	6		
5	Extra over rainwater downpipe for bend. A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
	PIPEWORK, ETC.				
	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Class 2 copper pipes with straight compression fittings				
6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc. A1 : 2 C1 : 0 D1 : 0 G1 : 0	m	2		
	Carried to Collection			R	

	Extra over copper pipes for brass compression fittings				
1	15mm Fittings. A1 : 4 C1 : 0 D1 : 0 G1 : 0	No	4		
	Extra over copper pipes for capillary fittings with soldered joints				
2	15mm Fittings. A1 : 2 C1 : 0 D1 : 0 G1 : 0	No	2		
	SOIL DRAINAGE				
	uPVC Pipes with solvent welded straight joints :				
3	40mm Pipes. A1 : 1 C1 : 0 D1 : 0 G1 : 0	m	1		
4	50mm Pipes. A1 : 1 C1 : 0 D1 : 0 G1 : 0	m	1		
	White uPVC vent pipe in single lengths :				
5	110mm Diameter vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. A1 : 12 C1 : 12 D1 : 0 G1 : 0	m	24		
	Extra over uPVC pipes for solvent welded fittings :				
6	40mm Plain bend. A1 : 2 C1 : 0 D1 : 0 G1 : 0	No	2		
7	50mm Plain bend. A1 : 2 C1 : 0 D1 : 0 G1 : 0	No	2		
8	Black PVC whirlybird vent capping over the 110mm vent pipe. A1 : 3 C1 : 3 D1 : 0 G1 : 0	No	6		
	Inspection chambers, catch pits, etc.				
	Carried to Collection			R	

	Light Composite covers and frames				
1	450 x 450mm x 8.6 kg EN124 A15 light composite manhole cover and frame inclusive of two stainless steel screws lock fasten cover with frame and two vented holes designed for the easy lifting and also has the function for draining, including fixing frame on concrete, A1 : 2 C1 : 2 D1 : 0 G1 : 0	No	4		
	SANITARY FITTINGS, TANKS, GEYSERS, ETC.				
	Plastic sanitaryware				
2	"222 AP" VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. A1 : 3 C1 : 4 D1 : 0 G1 : 0	No	7		
3	"507AP" Granite bowl urinal fitted with "496AP" waterless urinal waste fitting hung on wall on and including proprietary brackets. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Sanitary fitting sundries				
4	Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall. A1 : 3 C1 : 4 D1 : 0 G1 : 0	No	7		
5	Heavy-duty double-flap hinged toilet seat and cover. A1 : 3 C1 : 4 D1 : 0 G1 : 0	No	7		
	Tanks, geysers, etc.				
	Rainwater tanks				
6	2500 Litre polyethylene rotomoulded vertical water storage tank complete, on 1600 x 1600 tank stand, including lid, fitted with and including 50 x 15mm reducer 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. (Note: tanks to be filled with water before Practical Completion). A1 : 1 C1 : 1 D1 : 0 G1 : 0	No	2		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 13
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Galvanised Steel Pipe				
1	22mm galvanised steel pipe A1 : 1 C1 : 1 D1 : 0 G1 : 0	m	2		
	Taps, valves, etc.				
	Solid cast brass taps, valves, etc.				
2	15mm Ball-o-stop valve. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
3	22mm Gate valve A1 : 1 C1 : 1 D1 : 0 G1 : 0	No	2		
4	22mm Non Return valve A1 : 1 C1 : 1 D1 : 0 G1 : 0	No	2		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 13
PLUMBING AND DRAINAGE (PROVISIONAL)
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Waste unions, traps, etc.				
	Outlets, traps, etc :				
1	50mm Chromium plated PVC urinal bottle trap. A1 : 1 C1 : 0 D1 : 0 G1 : 0	No	1		
	Carried to Collection			R	

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 13

PLUMBING AND DRAINAGE (PROVISIONAL)

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 4 - PATEKILE PRIMARY SCHOOL				
	BILL No. 13				
	PAINTWORK				
	PAINT ON CONCRETE, PLASTER, ETC				
	Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on :				
1	Internal smooth plastered walls. A1 : 76 C1 : 53 D1 : 0 G1 : 0	m2	129		
2	Internal smooth plastered wall in narrow widths not exceeding 300mm wide A1 : 0 C1 : 0 D1 : 0 G1 : 0	m2	1		
	Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:				
3	Concrete floated or screeded floors A1 : 11 C1 : 6 D1 : 0 G1 : 0	m2	17		
4	Granolithic skirting not exceeding 300mm girth. A1 : 20 C1 : 19 D1 : 0 G1 : 0	m	39		
	PAINT ON TIMBER				
	Prime or oil				
5	Backs of frames or linings not exceeding 300mm girth. A1 : 0 C1 : 7 D1 : 0 G1 : 0	m	7		
6	Doors A1 : 0 C1 : 5 D1 : 0 G1 : 0	m2	5		
	PAINT ON METALWORK				
	Carried to Collection			R	

	<u>One coat steel etch primer, one coat universal undercoat and two coats gloss enamel paint on :</u>				
1	Hot dipped galvanised steel gates. A1 : 4 C1 : 2 D1 : 0 G1 : 0	m2	6		
2	Hot dipped galvanised steel mesh screens. A1 : 0 C1 : 5 D1 : 0 G1 : 0	m2	5		
	<u>PAINT ON FIBRE-CEMENT</u>				
	<u>Prepare and apply one coat plaster primer and two coats quality matt acrylic PVA on :</u>				
3	External fibre cement fascia boarding including priming cover strips. A1 : 1 C1 : 1 D1 : 0 G1 : 0	m2	2		
4	External fibre cement bargeboard including priming cover strips. A1 : 2 C1 : 2 D1 : 0 G1 : 0	m2	4		
	<u>PAINT ON PVC</u>				
	<u>Prepare and apply two coats black PVA paint on:</u>				
5	Vent pipes. A1 : 1 C1 : 1 D1 : 0 G1 : 0	m2	2		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 14
PAINTWORK
CWAKA PS, LANGALETHU PS & PATEKILE PS

Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

Bill No. 14

PAINTWORK

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION No. 2 - EXTERNAL WORKS - PATEKILE PRIMARY SCHOOL				
	BILL No. 14				
	EXTERNAL WORKS (PROVISIONAL)				
	Note:				
	For Preambles see "PW 371 - A Edition 2.0 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (2nd Edition July 2013).				
	THE FOLLOWING IN WALKWAYS, RAMPS, ETC.				
	EARTHWORKS				
	Site clearance				
1	Clear the areas to be developed of all rubbish, debris, vegetation, shrubs, bush and small trees not exceeding 200mm girth and remove from site.	m2	120		
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Reduced levels under solid floors.	m3	24		
	Carting away of excavated material				
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	24		
	Carried to Collection			R	

	Filling				
1	150mm G7 Sub-base course, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under slabs.	m3	18		
	Prescribed Testing				
2	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	Reinforced concrete 25MPa (19mm stone) in:				
3	Paving in panels including any necessary formwork.	m3	12		
4	Ramps.	m3	0.4		
	Surface treatment				
5	Float surface of concrete to a wood float finish.	m2	120		
	Test blocks and testing				
6	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	2		
	Movement joints				
7	10mm Thick "Jointex" closed cell polyethylene joint filler with hinged blocking piece between concrete surfaces not exceeding 300mm wide.	m	33		
8	Remove hinged blocking piece and fill 10 x 15mm cavity with an approved 2 part polysulphide sealer.	m	33		
	FORMWORK				
	Edges, risers, ends and reveals				
9	Edge, riser, etc not exceeding 300mm high.	m	200		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 15
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	Reinforcement				
1	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	120		
	THE FOLLOWING IN STORMWATER CUT OFF DRAIN / EARTH BERM				
	Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away				
2	Reduced levels	m3	30		
	Filling				
3	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	30		
	Compaction of surfaces				
4	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	60		
	Grassing, ground cover, etc.				
5	Kikuyu turf (sods or rolls) instant lawn 25 to 40mm thick, imported from commercial sources, laid firmly with staggered joints within three days of being lifted.	m2	50		
	THE FOLLOWING IN CONCRETE CHANNELS, ETC.				
	EARTHWORKS				
6	Holes	m3	0.3		
7	Surface trenches.	m3	1		
	Carting away of excavated material				
8	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
Bill No. 15
EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

1	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	1		
	Sundries				
2	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	3		
	Prescribed Testing				
3	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No			
	FORMWORK				
	Edges, risers, ends and reveals				
4	Edge, riser, etc not exceeding 300mm high.	m	6		
	Grooves, channels, mortices, etc.				
5	700 x 150mm V-Channels in top	m	3		
6	1500 x 750 x 150mm Concrete V-Channel Spreader	No	1		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
7	12mm Diameter bars.	t	0.007		
	Reinforcement				
8	Ref: 193 High tensile welded steel mesh reinforcement cast into concrete surfaces.	m2	3		
	Carried to Collection			R	

SECTION NO.4 - PATEKILE PRIMARY SCHOOL
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EXTERNAL WORKS
CWAKA PS, LANGALETHU PS & PATEKILE PS

	THE FOLLOWING IN STAND PIPE BIP TAP ETC.				
	EARTHWORKS				
1	Holes	m3	1		
2	Surface trenches.	m3	6		
	Carting away of excavated material				
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	1		
	Risk of collapse of excavations				
4	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	7		
	Keeping excavations free of water				
5	Allow for keeping the excavations free from water.		Item		
	Filling				
6	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	6		
	Foundation courses				
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc.	m3	0.3		
	Sundries				
8	Rip prepared platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	2		
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	Prescribed Testing				
1	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	2		
	CONCRETE (Labour intensive)				
	Mass concrete 25MPa (19mm stone) in:				
2	Strip foundations cast against excavated surfaces.	m3	2		
	Reinforced concrete 25MPa (19mm stone) in:				
3	Slabs	m3	1		
4	110mm PVC Blue Water Pipe	m3	1		
	FORMWORK				
	Edges, risers, ends and reveals				
5	Edge, riser, etc not exceeding 300mm high.	m	3		
	REINFORCEMENT (PROVISIONAL)				
	High tensile rod reinforcement to structural concrete work				
6	12mm Diameter bars.	t	0.003		
	PIPEWORK, ETC.				
	Pipes, pipe fittings, etc.				
	WATER SUPPLIES				
	Class 2 copper pipes with straight compression fittings				
7	22mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	46		
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	Extra over copper pipes for brass compression fittings				
1	22mm Fittings.	No	12		
	uPVC Pipes				
2	110mm Blue Water Pipe.	m	7		
	SANITARY FITTINGS				
	Solid cast brass taps, valves, etc.				
3	Bib Tap or Similar approved	No	4		
	THE FOLLOWING IN SECURITY FENCING				
	SECURITY FENCING				
	Site clearance				
4	Allow for clearing site for the width of 1000mm where fencing runs are to be erected including removing trees, shrubs, etc., not exceeding 200mm girth, grubbing up roots and roughly levelling.	m	40		
	Fencing				
5	4mm galvanised straining wires (evenly spaced) secured to straining posts with doubled 2mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to and inclusing 12mm diameter straining eye bolts.	m	40		
6	Fencing formed of 100 x 50 x 2.5mm diameter Class A galvanised "Secumesh" security fence 1.8m high with vertical wires facing outwards secured with "Howgring" clips applied with "Howgring" pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (elsewhere).	m	40		
	Carried to Collection			R	

	Hot dipped galvanised steel posts, etc.				
1	60mm Diameter x 2.5mm wall thickness intermediate fencing post, 2700mm long fitted with pressed steel mushroom cap, the post fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base including all necessary excavations, backfilling, concrete, etc.	No	12		
2	100mm Diameter x 3mm wall thickness end or corner post 2700mm long fitted with pressed steel mushroom cap and one 60mm diameter x 2mm wall thickness raking stay, the post and stay fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	6		
3	100mm Diameter x 3mm wall thickness intermediate straining or corner post 2700mm long fitted with pressed steel mushroom cap, but fitted with two 60mm diameter x 2mm wall thickness galvanised steel raking stays, the post and stays fitted with 150 x 150 x 5mm baseplate at bottom and embedded in 350 x 350 x 600mm mass concrete (15 MPa) base, including all necessary excavations, backfilling, concrete, etc.	No	2		
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Bill No. 15

EXTERNAL WORKS

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Section No. 4

SECTION NO.4 - PATEKILE PRIMARY SCHOOL

SECTION SUMMARY - SECTION NO.4 - PATEKILE PRIMARY SCHOOL

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SECTION SUMMARY - SECTION NO.4 - PATEKILE PRIMARY SCHOOL

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	CONTINGENCY PROVISIONS			
	The Tenderer is to allow hereunder for 5 (Five) percent of the Nett Builders Work Sub-Total to be used as a Budgetary Provision for construction contingencies of a general nature and for the finalisation of design detailing. This sum, or any portion thereof, shall be expended at the sole discretion of the Principal Agent. Any residual balance remaining subsequent to such expenditure shall be deducted in its entirety from the Contract Sum.		%	
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	Sub-Total		R	
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R	
	Carried to Form of Tender		R	

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