

Item No	Quantity	Rate	Amount
<u>SECTION NO 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES (CPAP Work Group No.190)</u>			
PRINCIPAL BUILDING AGREEMENT			
<p>The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 4.1 (Reprint 1), Code 2101 March 2005. (The JBCC Series 2000 Principal Building Agreement).</p>			
PRELIMINARIES			
<p>The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 4.1 (Reprint 1), Code 2101 March 2005. (The JBCC Series 2000 Principal Building Agreement).</p>			
FULL INTENT AND MEANING OF CLAUSES			
<p>Tenderers shall be deemed to have referred to the afore-mentioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only.</p>			
<p>Where standard clauses or alternatives are not applicable to this contract, such modifications, corrections or supplements as are necessary are given under each relevant clause heading or within the relevant schedule.</p>			
<p>where an item is not relevant to this specific contract, such item is marked "N/A" signifying "Not applicable".</p>			
PRICING OF CLAUSES			
<p>Tenderers shall allow opposite each clause for any cost involved with complying with such clause. Any clauses left unpriced shall be deemed to be covered by rates and prices elsewhere incorporated throughout these bills of quantities.</p>			
Carried to Collection			
PRELIMINARIES AND GENERAL Preliminaries			R

PAYMENT CATEGORIES

Should 'Alternative A', as set out within Clause 10.3 of the JBCC 2000 Preliminaries, be used for the adjustment of preliminaries, then each item priced is to be allocated to one or more categories by the insertion of the letter "F", "V" or "T", as the case may be, against the price in the rate column. These letters shall indicate the relevant categories as follows:

- "F" - A fixed amount.
- "V" - A variable amount in proportion to the value.
- "T" - An amount in proportion to time.

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0 Clause

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:

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

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

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

"FRAUDULENT PRACTICE" means a misrepresentation, whether made intentionally or otherwise, of the facts, which leads to an influence of the procurement process or decisions and/or actions taken under this **agreement** or during the procurement process. This includes a collusive practice among tenderers which has the effect of creating artificial non-competitive levels and to deprive the **employer** of free and open competition

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

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

Carried to Collection

PRELIMINARIES AND GENERAL
Preliminaries

R

	<p>Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"</p> <p>Clause 1.6.4 is amended by replacing it with the following:</p> <p>No clause</p>			
1	<p>Fixed:_____ Value related:_____ Time Related:_____</p> <p>OBJECTIVE AND PREPARATION</p> <p>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS</p> <p>Clause 2.0</p>	Item		
2	<p>Fixed:_____ Value Related:_____ Time Related:_____</p> <p>A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.1 is amended by replacing it with the following:</p> <p>The principal agent shall supply and keep a copy of the JBCC series 2000 Principal Building Agreement and Preliminaries applicable to this contract, to the contractor to kept on the site, to which the employer, principal agent and agents shall have access at all times.</p>	Item		
3	<p>Clause 3.7 is amended by replacing the second reference to "principal agent" with the word "employer"</p>	Item		
4	<p>Fixed:_____ Value Related:_____ Time Related_____</p> <p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p>	Item		
5	<p>Clause 4.3 is amended by replacing it with the following:</p>	Item		
6	<p>No clause</p>	Item		
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL Preliminaries			

1	Fixed _____ Value Related _____ Time Related _____ A5.0 EMPLOYER'S AGENTS Clause 5.0	Item	
2	Fixed _____ Value Related _____ Time Related _____ A6.0 CONTRACTOR'S SITE REPRESENTATIVE Clause 6.0	Item	
3	Fixed _____ Value Related _____ Time Related _____ A7.0 COMPLIANCE WITH LAW AND REGULATIONS Clause 7.0 Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities 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 The cost of compliance with all applicable laws, regulations and procedures provided for in this agreement and generally shall be borne by the contractor	Item	
4	Fixed _____ Value Related _____ Time Related _____ A8.0 WORKS RISK Clause 8.0	Item	
5	Fixed _____ Value Related _____ Time Related _____ A9.0 INDEMINITIES Clause 9.0	Item	
	Carried to Collection		R
	PRELIMINARIES AND GENERAL Preliminaries		

1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>A10.0 GENERAL INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) And without in any way limiting the Contractor's obligations in terms of the agreement, the Contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the Employer against any such damage. The Contractor shall take such precautions and security measures and other steps for the protection and security of the works as the Contractor may deem necessary.</p> <p>(b) The Contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this agreement, 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 of this agreement.</p> <p>10.6 Injury to Persons or loss of or damage to Properties</p> <p style="text-align: right; margin-right: 50px;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>	Item	
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(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 death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

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

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

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

(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**.

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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.

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

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

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

1	Fixed _____ Related _____ Time Related _____	Item	
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A11.0 SPECIAL INSURANCES

Clause 11.0

2	Fixed _____ Value Related _____ Time Related _____	Item	
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A12.0 EFFECTING INSURANCES

Clause 12.0

3	Fixed _____ Value Related _____ Time Related _____	Item	
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A13.0 ASSIGNMENT

4	Fixed _____ Value Related _____ Time Related _____	Item	
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A14.0 SECURITY

Clause 14.0

Carried to Collection

PRELIMINARIES AND GENERAL Preliminaries

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Clause 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 as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

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

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **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 the 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**.

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

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

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

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof of 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 fourteen (14) **calendar days** from **commencement date**.

14.4.2 The variable construction guarantee to be provided shall not contain an expiry date.

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**.

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

14.5 Where **security** as a fixed **construction guarantee** of five percent (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:

NOTE: No interest will be paid on such amount withheld

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 to be provided shall not contain an expiry date.

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 the 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 the 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)

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

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

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

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

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **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 ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

1 Fixed _____ Value Related _____ Time Related _____

Item

EXECUTION

A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1 amended by the addition of the following clause:

Clause 15.1.2 is amended by replacing it with:

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

The **security** selected in terms of 14.0

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**, for approval by the **employer**, including any documents and or permits which are required in terms of the Construction Regulations

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

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

1 Fixed _____ Value Related _____ Time Related _____

Item

A16.0 SITE AND ACCESS

Clause 16.0

2 Fixed _____ Value Related _____ Time Related _____

Item

A17.0 CONTRACT INSTRUCTIONS

Clause 17.0

3 Fixed _____ Value Related _____ Time Related _____

Item

A18.0 SETTING OUT OF THE WORKS

Clause 18.0

4 Fixed _____ Value Related _____ Time Related _____

Item

A19.0 TEMPORARY WORKS AND PLANT

Clause 19.0

5 Fixed _____ Value Related _____ Time Related _____

Item

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

	A20.0 NOMINATED SUBCONTRACTORS		
	Clause 20.0		
1	Fixed _____ Value Related _____ Time Related _____	Item	
	A21.0 SELECTED SUBCONTRACTORS		
	Clause 21.0		
2	Fixed _____ Value Related _____ Time Related _____	Item	
	A22.0 EMPLOYERS DIRECT CONTRACTORS		
	Clause 22.0		
3	Fixed _____ Value Related _____ Time Related _____	Item	
	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS		
	Clause 23.0		
4	Fixed _____ Value Related _____ Time Related _____	Item	
	COMPLETION		
	A24.0 PRACTICAL COMPLETION		
	Clause 24.0		
5	Fixed _____ Value Related _____ Time Related _____	Item	
	A25.0 WORKS COMPLETION		
	Clause 25.0		
6	Fixed _____ Value Related _____ Time Related _____	Item	
	A26.0 FINAL COMPLETION		
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

	<p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>A27.0 LATENT DEFECTS LIABILITY PERIOD</p>			
2	<p>Clause 27.0</p>	Item		
3	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>A28.0 SECTIONAL COMPLETION</p>			
4	<p>Clause 28.0</p>	Item		
5	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p>			
	<p>Clause 29.0</p>			
6	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>A30.0 PENALTY FOR LATE OR NON-COMPLETION</p>			
	<p>Clause 30.0</p> <p>0.05% of the Contract Amount inclusive of Value Added Tax (VAT) per Calendar day</p>			
7	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>PAYMENT</p>			
	<p>A31.0 INTERIM PAYMENT</p>			
	<p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p>			
	<p>Carried to Collection</p>		R	
	<p>PRELIMINARIES AND GENERAL Preliminaries</p>			

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

Alternative A

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

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

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

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

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**

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

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

1 Fixed _____ Value Related _____ Time Related _____

Item

A32.0 ADJUSTMENT TO THE CONTRACT VALUE

2 Clause 32.0

Item

3 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:

Item

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

Item

5 Fixed _____ Value Related _____ Time Related _____

Item

A33.0 RECOVERY OF EXPENSE AND LOSS

6 Clause 34.0

Item

7 Fixed _____ Value Related _____ Time Related _____

Item

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

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

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) **calender 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"

1 Fixed _____ Value Related _____ Time Related _____

Item

A35.0 PAYMENT TO OTHER PARTIES

Clause 35.0

2 Fixed _____ Value Related _____ Time Related _____

Item

TERMINATION

A36.0 TERMINATION 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 the contract

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

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

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

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

1 Fixed _____ Value Related _____ Time Related _____

Item

A37.0 TERMINATION BY EMPLOYER LOSS AND DAMAGE

Clause 37.0

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

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

37.5 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

2 Fixed _____ Value Related _____ Time Related _____

Item

A38.0 TERMINATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

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

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

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PRELIMINARIES AND GENERAL Preliminaries

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

A39.0 TERMINATION - 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"

1 Fixed _____ Value Related _____ Time Related _____

Item

DISPUTE

A40.0 SETTLEMENT OF DISPUTES

Clause 40.0

Clause 40.6 is amended by removing the reference to:

No Clause

2 Fixed _____ Value Related _____ Time Related _____

Item

CONTRACT AGREEMENT

A41.0 POST TENDER PROVISIONS

Clause 41.0

3 Fixed _____ Value Related _____ Time Related _____

Item

A42.0 CONTRACTUAL AGREEMENT

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R

PRELIMINARIES AND GENERAL Preliminaries

1	Fixed _____ Value Related _____ Time Related _____	Item	
	<p>Clause 42.1 CONTRACTING AND OTHER PARTIES</p> <p>42.1.1</p> <p>Employer:</p> <p>Development Bank of Southern Africa (DBSA) 1258 Lever Road Headway Hill Midrand South Africa</p> <p>42.1.2 Principal Agent:</p> <p>N/A</p> <p>Clause 42.2 CONTRACT DETAILS</p> <p>42.2.1 Works Description:</p> <p>The scope of works comprise of the construction of:</p> <ol style="list-style-type: none"> 1. Classroom Blocks 2. Computer Lab 3. Administration Block 4. Multi -purpose Classroom 5. Ablution Blocks 6. Guard House 7. Refuse Yard 8. Assembly Area 9. Kitchen 10. Parking 11. Combi & Netball Court 12 Boundary Fence 		
	Carried to Collection		R
	PRELIMINARIES AND GENERAL Preliminaries		

<p>42.2.2 Site Description</p> <p>Inkosi Mkhuphukeli High School</p> <p>Alfred Duma Municipality</p> <p>Uthukela Municipality</p> <p>42.2.3 Work or installations by others</p> <p style="text-align: right;">N/A</p> <p>42.2.4 This agreement is for government contract where there are specific options that are applicable to a STATE organ only</p> <p>42.2.5 The date on which possession of the site shall be given to the contractor will be determined after all the requirements are met by the successful contractor.</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of the site shall be seven (7) days.</p> <p>42.2.7 Completion of the work as a whole will be required;</p> <p>42.2.8 For the works as a whole the intended date of practical completion and penalty per calendar day shall be:</p> <p>Penalty Amount 0.05% of the Contract Amount inclusive of Value Added Tax (VAT) / Calendar Day</p> <p>Date The date for practical completion is fifteen (15) months after site handover.</p> <p style="text-align: right; margin-right: 50px;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>				
				R

42.2.12
 Payment for materials and goods on site shall be made

42.2.13
 The Law applicable to this contract shall be that of South Africa (Country)

42.2.14
 The contract dispute resolution shall be arbitration

42.2.15
 The arbitration rules shall be as recommended by Association of Arbitrators (SA)

Clause 42.3
INSURANCES

42.3.1
 Contract works insurance to be effected by Contractor:
 R40 000,000.00

with a **deductible** of 10% insurances shall be in place for the construction period until the issue of the practical completion certificate

42.3.2
 Public liability insurance to be effected by Contractor
 For the amount of R 10,000,000.00

with a **deductible** of 10% insurances shall be in place for the construction period until the issue of the practical completion certificate

42.3.3
 Supplementary/special insurance effected by Contractor shall be limited to Contract Sum Plus 20%

with a **deductible** of 10% insurances shall be in place for the construction period until the issue of the practical completion certificate

Clause 42.4
DOCUMENTS

42.4.1
 Waiver of contractor's lien is required, the client shall provide a payment guarantee

Carried to Collection

PRELIMINARIES AND GENERAL
 Preliminaries

R

42.4.2
 Three **(3)** copies of construction documentation to be supplied to the contractor free of charge

42.4.3
Bills of Quantities drawn up in accordance with the Standard System of Measuring Building Work issued by The Association of South African Quantity Surveyors

Edition No.7 Amendment 2015 as amended

42.4.4
 On acceptance of the tender the priced bills of quantities to be submitted within 7 working days

42.4.5
 JBCC Engineering General Conditions are to be included with the contract documents
 N/A

42.4.6
 Alternative where the contract is not to be adjusted using CPAP
 N/A

42.4.7
 Details of changes made to the provisions of JBCC standard documentation

SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

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

1 Fixed _____ Value Related _____ Time Related _____

Item

B2.0 DOCUMENTS

B2.1 Checking of documents

2 Fixed _____ Value Related _____ Time Related _____

Item

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

1	B2.2 Provisional bills of quantities Fixed _____ Value Related _____ Time Related _____	Item	
	B2.3 Availability of construction documentation		
2	Fixed _____ Value Related _____ Time Related _____	Item	
	B2.4 Interests of agents		
3	Fixed _____ Value Related _____ Time Related _____	Item	
	B2.5 Priced documents		
4	Fixed _____ Value Related _____ Time Related _____	Item	
	B2.6 Tender submission		
5	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.0 THE SITE		
	B3.1 Previous work - dimensional accuracy		
6	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.2 Previous work - defects		
7	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.3 Inspection of adjoining properties		
8	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.4 Existing premises occupied		
9	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.5 Previous work - dimensional accuracy All dimensions are to be taken on site		
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

1	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.6 Previous work - defects		
2	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.7 Services - known		
3	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.8 Services - unknown		
4	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.9 Protection of trees		
5	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.10 Articles of value		
6	Fixed _____ Value Related _____ Time Related _____	Item	
	B3.11 Inspection of adjoining properties		
7	Fixed _____ Value Related _____ Time Related _____	Item	
	B4.0 MANAGEMENT OF CONTRACT		
	B4.1 Management of the works		
8	Fixed _____ Value Related _____ Time Related _____	Item	
	B4.2 Programming for the works		
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

Tenderers to submit a proposed construction programme, such programme is to clearly show the critical path items, sequence & duration of the works and proposed Practical completion date. Tenderers are to allow 5 working days for adverse weather conditions in the programme, delay claims related to adverse weather will be claimed and deducted accordingly from the programme. Such delays will only have cost implications once the number of days claimed exceed the 5 days allowed for in the programme.

1 Fixed _____ Value Related _____ Time Related _____

Item

B4.3 Progress meetings

2 Fixed _____ Value Related _____ Time Related _____

Item

B4.4 Technical meetings

3 Fixed _____ Value Related _____ Time Related _____

Item

B4.5 Labour and plants records

4 Fixed _____ Value Related _____ Time Related _____

Item

B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS

B5.1 Samples of materials

5 Fixed _____ Value Related _____ Time Related _____

Item

B5.2 Workmanship samples

6 Fixed _____ Value Related _____ Time Related _____

Item

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

	<p>B5.3 Shop drawings</p> <p>Notwithstanding the content of this clause, will the following be specific shop drawing requirements that needs to be complied with.</p> <p>Specific shop drawings of routes, elevations and details required</p> <ul style="list-style-type: none"> - All steel work - Roof construction - All Electrical work - All Mechanical work - Legislative fire signage 				
1	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item			
	<p>B5.4 Compliance with manufacturer's instructions</p>				
2	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item			
	<p>B6.0 TEMPORARY WORKS AND PLANT</p>				
	<p>B6.1 Deposits and fees</p>				
3	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item			
	<p>B6.2 Enclosure of the works</p> <p>The contractor shall erect, maintain and remove at completion, hoarding with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosures of the works and elements thereof all for the protection of the public and others.</p> <p>Fixed _____ Value Related _____ Time Related _____</p>				
	<p>B6.3 Advertising</p> <p>Fixed _____ Value Related _____ Time Related _____</p>				
	<p>B6.4 Plant, equipment, sheds and offices</p>				
	Carried to Collection				R
	PRELIMINARIES AND GENERAL Preliminaries				

1	Fixed _____ Value Related _____ Time Related _____	Item	
	B6.5 Main notice board		
2	Fixed _____ Value Related _____ Time Related _____	Item	
	B6.6 Subcontractor's notice board		
3	Fixed _____ Value Related _____ Time Related _____	Item	
	B7.0 TEMPORARY SERVICES		
	B7.1 Location		
4	Fixed _____ Value Related _____ Time Related _____	Item	
	B7.2 Water (Option A)		
5	Fixed _____ Value Related _____ Time Related _____	Item	
	B7.3 Electricity (Option A)		
6	Fixed _____ Value Related _____ Time Related _____	Item	
	B7.4 Telecommunication facilities		
7	Fixed _____ Value Related _____ Time Related _____	Item	
	B7.5 Ablution facilities (Option A)		
8	Fixed _____ Value Related _____ Time Related _____	Item	
	B8.0 PRIME COST AMOUNTS		
	B8.1 Responsibility for prime cost amounts		
9	Fixed _____ Value Related _____ Time Related _____	Item	
	B9.0 ATTENDANCE ON N/S SUBCONTRACTORS		
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

	B9.1 General Attendance			
1	Fixed _____ Value Related _____ Time Related _____	Item		
	B9.2 Special attendance			
2	Fixed _____ Value Related _____ Time Related _____	Item		
	B9.3 Commissioning - fuel, water and electricity			
3	Fixed _____ Value Related _____ Time Related _____	Item		
	B10.0 FINANCIAL ASPECTS			
	B10.1 Statutory taxes, duties and levies			
4	Fixed _____ Value Related _____ Time Related _____	Item		
	B10.2 Payment for preliminaries			
	Option [A] shall apply			
5	Fixed _____ Value Related _____ Time Related _____	Item		
	B10.3 Adjustment of preliminaries			
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within seven (7) working days of taking possession of the site " with "when submitting his priced Bills of quantities / lump sum document "			
6	Fixed _____ Value Related _____ Time Related _____	Item		
	B10.4 Payment certificate cash flow			
7	Fixed _____ Value Related _____ Time Related _____	Item		
	B10.5 Contractor information supply			
8	Fixed _____ Value Related _____ Time Related _____	Item		
	Carried to Collection			
	PRELIMINARIES AND GENERAL Preliminaries		R	

	B11.0 GENERAL			
	B11.1 Protection of the works YES			
1	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.2 Protection / isolation of existing / sectionally occupied works YES			
2	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.3 Security of the works			
3	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.4 Notice before covering the work			
4	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.5 Disturbance			
5	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.6 Environmental disturbance			
6	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.7 Works cleaning and clearing			
7	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.8 Vermin			
8	Fixed _____ Value Related _____ Time Related _____	Item		
	B11.9 Overhand work			
	Carried to Collection			
	PRELIMINARIES AND GENERAL Preliminaries		R	

1	Fixed _____ Value Related _____ Time Related _____ B11.10 Instruction manuals and guarantees	Item	
2	Fixed _____ Value Related _____ Time Related _____ B11.11 As built information	Item	
3	Fixed _____ Value Related _____ Time Related _____ B11.12 Tenant installations	Item	
4	Fixed _____ Value Related _____ Time Related _____ B12.0 SCHEDULE OF VARIABLES B12.1 Schedule of variables	Item	
5	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 . 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 annexured 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	Item	
	Carried to Collection		R
	PRELIMINARIES AND GENERAL Preliminaries		

<p>12.1.2 Availability of construction documentation</p> <p>(2.3) Construction documentation is complete NO</p> <p>12.1.3 Interest of agents</p> <p>(2.4) Details</p> <p>12.1.4 Defined works area (3.1)</p> <p>The works are to be constructed on a green field</p> <p>12.1.5 Geotechnical investigation (3.2) Details:</p> <p>There is no geotechnical investigation available therefore it is the responsibility of the Contractor to make himself familiar to the site conditions.</p> <p>12.1.6 Existing premises occupied</p> <p>NO</p> <p>(3.4) Specific requirements:</p> <p>N/A</p> <p>12.1.7 Previous work - dimensional accuracy (3.5) Details:</p> <p>12.1.8 Previous work defects (3.6) Details:</p> <p>12.1.9 Services - known (3.7) Details:</p> <p>12.1.10 Protection of trees (3.9) Specific requirements:</p> <p>All trees should be protected and only on instruction of the principal agent may any trees be removed</p>				
Carried to Collection				R
PRELIMINARIES AND GENERAL Preliminaries				

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 electrical 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 (drawing to be provided by PA), 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 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

[6.5] A notice board is required

Specific requirements

No

12.1.16 Water

7.20 option A (by contractor) **YES**
option B (by employer - free of charge)
option C (by employer - metered)

Carried to Collection

PRELIMINARIES AND GENERAL
Preliminaries

R

<p>12.1.17 Electricity [7.3] option A (by contractor) YES option B (by employer - free of charge) option C (by employer - metered)</p> <p>12.1.18 Telecommunications [7.4] option A (by contractor) YES option B (by employer - free of charge) option C (by employer - metered)</p> <p>Telephone Facsimile E-mail</p> <p>12.1.19 Ablution Facilities [7.5] option A (by contractor) YES option B (by employer - free of charge) option C (by employer - metered)</p> <p>12.1.20 Protection of existing / sectionally occupied works [11.2] Protection required N/A</p> <p>12.1.21 Special Attendance [9.2] Subcontractor (1) details: Subcontractor (2) details: Subcontractor (3) details: Subcontractor (4) details:</p> <p>12.1.22 Protection of the works [11.1] Special requirements</p> <p>12.1.23 Disturbance [11.5] Specific requirements</p> <p>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</p> <p>12.1.24 Environmental disturbance [11.6] Special requirements</p> <p>12.2 POST-TENDER INFORMATION</p>				
Carried to Collection				R
PRELIMINARIES AND GENERAL Preliminaries				

12.2.1 **Payment of preliminaries**
[10.2] Option A (pro rated) YES
Option B (calculated) NO

12.2.2 **Adjustment of preliminaries**
[10.30] Option A (three categories)
NO
Option B (detailed breakdown)

YES

12.2.3 **Additional agreed preliminaries items**
Details:
N/A

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

C1.0 CONTRACT DRAWINGS

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

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**

1 Fixed _____ Value Related _____ Time Related

Item

C2.0 GENERAL PREAMBLES

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

The document "Construction Works: Specifications: The General Preambles for Trades 2017, prepared by the Association of South African Quantity Surveyors, which the Tenderer shall purchase himself from the ASAQS, Suite G6, Building 27, Thornhill Office Park, Bekker Road, Vorna Valle Ext 21, Midrand, 1686. Tel 011-315 4140, Email info@asaqs.co.za;

1 Fixed _____ Value Related _____ Time Related _____

Item

C3.0 TRADE NAMES

Wherever trade name for any product has been described in the bill of quantities, 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 tenderd

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

2 Fixed _____ Value Related _____ Time Related _____

Item

C4.0 IMPORTED MATERIALS AND EQUIPMENT

N/A

3 Fixed _____ Value Related _____ Time Related _____

Item

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 N/A

4 Fixed _____ Value Related _____ Time Related _____

Item

C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

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

N/A

1 Fixed _____ Value Related _____ Time
Related _____

Item

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.

N/A

2 Fixed _____ Value Related _____ Time
Related _____

Item

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**

N/A

3 Fixed _____ Value Related _____ Time
Related _____

Item

C9.0 PROHIBITION OF TAKING OF PHOTOGRAPHS

Carried to Collection

R

PRELIMINARIES AND GENERAL
Preliminaries

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 any building work 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

N/A

1 Fixed _____ Value Related _____ Time Related _____

Item

C10.0 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent 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.

C10.1 Awareness champion

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

2 Fixed _____ Value Related _____ Time Related _____

Item

Carried to Collection

R

PRELIMINARIES AND GENERAL Preliminaries

	<p>C10.2 Awareness workshops</p> <p>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 media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>C10.3 Posters, booklets, videos, etc.</p> <p>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</p>	Item		
2	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>C10.4 Access to condoms</p> <p>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</p>	Item		
3	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>C10.5 Monitoring</p> <p>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.</p> <p>C10.6 Non cession of monies</p> <p>Clause 10.6</p>	Item		
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL Preliminaries			

1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>C10.7 Money provision</p> <p>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No.85 of 1993).</p> <p>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.</p> <p>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 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.</p> <p>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</p>	Item	
2	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item	
3	<p>Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative</p>	Item	
4	<p>Allow for the necessary Workman’s Compensation Fund or FEM contributions for the duration of the project with and including renewals</p>	Item	
	Carried to Collection		R
	PRELIMINARIES AND GENERAL Preliminaries		

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item	
2	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]		SUM
3	Allow for the appointment of a Full-Time Competent Construction Health & Safety Officer to assist in the control of all health and safety related aspects on site as per [CR 8(5)]		SUM
4	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site as per [CR 8(1),(2), &(7)]		SUM
5	Allow for provision of telecommunication facilities for the appointed Construction Health & Safety Officer		SUM
6	Allow for provision of Basic Emergency Preparedness and Response equipment & at least Level 2 First Aider/s		SUM
	<u>Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments:</u>		
7	Hard Hats(High Density polyethylene, & 6-point lining)	Item	
8	Overall/work suit (100% Cotton)	Item	
9	Safety boots/shoes (Steel-Toe)	Item	
10	Safety gloves	Item	
11	Ear Plugs/Muffs	Item	
12	Dust Mask(at least FF2 type)	Item	
13	Respirators	Item	
14	Safety goggles	Item	
15	Personal Fall arrest and rescue equipment with and including life lines and associated equipment	Item	
16	High visibility reflective vests and/or bibs	Item	
	Carried to Collection		R
	PRELIMINARIES AND GENERAL Preliminaries		

1	Temporary handrails ,toe boards other than for access scaffolding	Item	
2	Temporary warning signs and symbols	Item	
3	SANS approved safety netting (orange color with minimum of 1,2 meters high)	Item	
4	Allow for Pre-employment medical examinations	Item	
5	Allow for exit medical examinations	Item	
	<u>Health and safety education</u>		
6	Allow for HIV/AIDS awareness and Implementation programmes, including STI and TB	Item	
7	Allow for all compulsory health and safety awareness programme (e.g. Inductions, toolbox Talks, Safety Promotions, H&S related training, etc.)	Item	
	<u>Environmental</u>		
8	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water.	Item	
9	Provide for the adequate and safe collection and disposal of waste material from site by an approved method.	Item	
10	Provide Facilities and Eating Area for workers.	Item	
11	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications.	Item	
12	Provide for stockpiling of topsoil for re-use	Item	
	<u>Covid-19</u>		
	<u>Occupational Health & Safety Obligations</u>		
13	Update of the Contractor's site specific COVID-19 Health and Safety Plan	Item	
14	Principal Contractor's initial obligations in respect of the COVID-19 Workplace Regulations and COVID-19 Construction Sector Regulations	Item	
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

1	Principal Contractor's time related obligations in respect of the COVID-19 Workplace Regulations (Anticipated Period)	Item	
	<u>COVID-19 Compliance Officer (In Addition to H&S Officer)</u>		
2	Provision of a full time COVID-19 Compliance Officer (Anticipated Period)	Item	
	<u>Provision of Personal Protective Equipment (PPE)</u>		
3	Plastic face shield mask (quantity to be aligned with scaling in employment)	Item	
4	Disposable gloves (quantity to be aligned with scaling in employment)	Item	
5	Cloth face masks (quantity to be aligned with scaling in employment)	Item	
	<u>Education & Training</u>		
6	Initial COVID-19 training (quantity to be aligned with risk assessment and scaling in employment)	Item	
7	Weekly COVID-19 toolbox talks	Item	
	<u>Facilities and equipment</u>		
8	Separate office (9m2) with windows and a door for use by COVID-19 Compliance Officer including electricity connection and supply	Item	
9	Provision and upkeep of infrared handheld thermometer	Item	
	<u>Supply and fix COVID-19 signs</u>		
10	Hand Hygiene (800 x 800mm)	Item	
11	Adhoc: Any OHS related requirements not listed above	Item	
12	Kiosk for COVID-19 Screening Station Pre: site entry	Item	
13	Social Distancing (400 x 400mm)	Item	
14	Prevention Tips (297 x 420mm)	Item	
	Carried to Collection		
	PRELIMINARIES AND GENERAL Preliminaries		R

	<u>Cleaning materials and Hand sanitizers</u>			
1	Monthly disinfection of facilities	Item		
2	Supply and upkeep of hand sanitizer dispensers and consumables (paper towel)	Item		
	<u>ELECTRICAL INSTALLATIONS PRELIMINARIES (CPAP Work Group No.190)</u>			
	Compliance for electrical installation			
	<u>NOMINATED/SELECTED SUBCONTRACT AGREEMENT</u>			
3	Compliance with Nominated/Selected Subcontractors Agreement, JBCC		SUM	
	<u>COMPLIANCE WITH CONDITIONS</u>			
4	Nett price for compliance with the conditions of contract, the Nett price for compliance with the conditions of the Contract, and various specifications, which costs are not specifically covered elsewhere or by unit rates		SUM	
	<u>SURETY</u>			
5	Allow for the provision of a performance guarantee for the contract value - refer to the main contract preliminaries attached		SUM	
	<u>SITE ESTABLISHMENT</u>			
6	Allow for the electrical site establishment, all associated services and for storage of plant, materials and equipment including protection thereof		SUM	
	<u>TRANSPORT</u>			
7	Provide and arrange for transport and off loading of all electrical material and equipment to site as well as workmen and staff		SUM	
	Carried to Collection		R	
	PRELIMINARIES AND GENERAL Preliminaries			

<u>COMMISSIONING AND TESTING</u>				
1	Supply all test equipment and labour for testing, commissioning and adjustment for all the sections of the installation.			SUM
<u>DRAWINGS</u>				
2	Making reference, to other relevant drawings e.g. Civil, Structural, Architectural existing services etc.			SUM
<u>AS BUILT DRAWINGS</u>				
3	Compilation of as built drawings for the complete electrical installation			SUM
<u>EXTRACTS FROM THE PRINCIPAL CONTRACTOR</u>				
4	Allowance for any costs associated with the requirements of the Principal Contract preliminaries which may affect the selected sub contract.			SUM
<u>GUARANTEE PERIOD</u>				
5	Allow for a guarantee period of 12 months on all the electrical and electronic equipment but items such as lamps excluded	m	1	
<u>OTHER NECESSARY WORKS</u>				
6	All other works necessary to complete the installation in a satisfactory manner, and in accordance with the drawings, specification, SABS Code of Practice, the Local Authorities requirements, and to the Engineers satisfaction to include for items specified or shown but not itemised in this bill.			SUM
7	PRELIMINARIES AND GENERAL		Item	
<u>MECHANICAL INSTALLATIONS (HVAC) (CPAP Work Group No.190)</u>				
<u>AIR-CONDITIONING SERVICES</u>				
<u>COMPLIANCE</u>				
	Carried to Collection			R
	PRELIMINARIES AND GENERAL Preliminaries			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

<u>Quality & Scope of Work</u>				
1	Compliance with Regulations and Standards.			SUM
2	Health and Safety compliance.			SUM
3	Protection against corrosion.			SUM
4	Performance security.			SUM
5	Programming of work.			SUM
6	12 Months Guarantee			SUM
7	Transport and delivery.			SUM
8	Testing, balancing and commissioning.			SUM
9	O & M manuals including as built drawings in hard copy and on CD x 3 sets.	Sets	1.0	
Carried to Collection				R
PRELIMINARIES AND GENERAL Preliminaries				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No		Amount
PRELIMINARIES AND GENERAL			
Preliminaries			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	1		
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	22		
PRELIMINARIES AND GENERAL			
Preliminaries			
		R	

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

PRELIMINARIES AND GENERAL	Page No	R	Amount
Preliminaries			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	23		
	24		
	25		
	26		
	27		
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	40		
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	42		
	43		
		R	
PRELIMINARIES AND GENERAL			
Preliminaries			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL No. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL) (CPAP Work Group No.104)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>				
	Carried to Collection				R
	BUILDING WORKS Earthworks (Provisional)				

<u>Density Testing On Filling</u>					
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved					
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally					
<u>Formwork</u>					
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"					
<u>Reinforced Concrete</u>					
All reinforced concrete is to be compacted with a mechanical vibrator.					
<u>EXCAVATIONS, FILLING, ETC</u>					
1	Excavate in earth to open face over site to reduce levels.	m3	3,476		
2	Extra over excavations in earth to trenches for excavation in soft rock.	m3	253		
3	Ditto, but in hard rock.	m3	169		
4	Excavate in earth for working space (at Contractor's discretion) not exceeding 1300mm deep to side of the building of brick wall, fill and consolidate spoil on completion. (Distance from face of wall to side of excavation is 170mm).	m2	1,300		
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	1,577		
6	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	541		
	Carried to Collection				R
BUILDING WORKS					
Earthworks (Provisional)					

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Backfilling with excavated material, deposited in layers not exceeding 150mm Thick, watered and consolidated to 93% modified AASHTO density to platforms	m3	534	
2	Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	1,419	
3	Allow for keeping excavations free from water.		Item	
4	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	3,401	
5	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	156	
<u>Testing</u>				
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	50	
Carried to Collection				R
BUILDING WORKS Earthworks (Provisional)				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP Work Group No. 110, 111 & 114)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Cost Of Tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor.</p>				
	Carried to Collection				R
	BUILDING WORKS Concrete, Formwork & Reinforcement				

	<u>Reinforced Concrete</u>				
	All reinforced concrete is to be compacted with a mechanical vibrator. All concrete work shall comply to SABS 1200G.				
	<u>Formwork</u>				
	Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use				
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.				
	All formwork shall include for propping to not exceeding 3500mm high unless otherwise described.				
	Formwork to sides of walls and columns shall be to walls and columns not exceeding 3500mm high unless otherwise described.				
	Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described				
	<u>CONCRETE</u>				
	<u>TESTSNOTE: Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor.-----</u>				
1	Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional).	No	120		
	<u>Un-reinforced Cement Concrete (15MPa) In</u>				
2	Blinding.	m3	162		
	Carried to Collection			R	
	BUILDING WORKS Concrete, Formwork & Reinforcement				

	<u>Reinforced Cement Concrete (25MPa) In</u>			
1	Surface beds on waterproof sheeting.	m3	657	
2	Slabs including beams and inverted beams.	m3	268	
3	Concrete walls.	m3	26	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing Top Surfaces Of Concrete Smooth With A Wood Float</u>			
4	Surface beds, slabs, etc.	m2	3,245	
	<u>Finishing Top Surfaces Of Concrete With A Powerfloat Finish</u>			
5	Surface beds, slabs, etc.	m2	766	
	<u>FORMWORK</u>			
	<u>Rough Formwork To</u>			
6	Sides of concrete walls.	m2	348	
7	Sides and soffits of slabs and beams.	m2	210	
	<u>MOVEMENT JOINTS, ETC</u>			
	<u>Saw Cut Joints</u>			
8	3mm Wide x 20mm deep saw cut joint in top of concrete.	m	1,000	
	<u>Bitumen Impregnated Softboard Expansion Joints</u>			
9	Joint not exceeding 300mm high or wide formed of one layer 10mm thick set between vertical concrete or brick surfaces.	m	1,000	
	<u>REINFORCEMENT</u>			
	<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>			
10	Diameter bars.	t	124.76	
	Carried to Collection			
	BUILDING WORKS			
	Concrete, Formwork & Reinforcement			R

Fabric Reinforcement To Concrete Work

1	High tensile steel mesh Ref. 311 to concrete surface beds, slabs, etc.	m2	6,647	
2	High tensile steel mesh Ref. 395 to concrete surface beds, slabs, etc.	m2	156	

Carried to Collection

BUILDING WORKS
 Concrete, Formwork & Reinforcement

R

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>PRECAST CONCRETE (CPAP Work Group No.112)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Sizes</u></p> <p>Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the Representative/Agent for approval before moulds are made.</p> <p><u>General</u></p> <p>Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming.</p> <p><u>COPING, SILLS, ETC.</u></p>			
1	1000 x 650mm Precast concrete pit covers.	No	20	
	Carried Forward to Summary of Section No. 2			R
	BUILDING WORKS			
	Precast Concrete			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>MASONRY (CPAP Work Group No.118)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Sizes In Descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> <p><u>Cement Mortar</u></p> <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> <p><u>Face Bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>				
	Carried to Collection				R
	BUILDING WORKS Masonry				

<u>Samples, etc</u>					
Rates for brickwork, faced brickwork, etc shall include for all required samples					
<u>BRICKWORK IN SUBSTRUCTURE</u>					
<u>Brickwork of NFX Bricks (14Mpa Nominal Compressive Strength) In Class I Cement Mortar</u>					
1	Half brick wall linings to raft beams.	m2	2,463		
<u>M200 Blocks</u>					
2	M200 Blocks with and including filling of cavities with mass concrete.	m2	132		
<u>BRICKWORK IN SUPESTRUCTURE</u>					
<u>Brickwork Of NFX Bricks (14Mpa Nominal Compressive Strength) In Class I Cement Mortar</u>					
3	Attached piers, projections, etc.	m3	92		
4	Half brick wall.	m2	365		
5	Half brick wall in beamfilling.	m2	292		
6	One brick walls.	m2	3,366		
7	460mm Brick walls.	m2	34		
<u>BRICKWORK SUNDRIES</u>					
<u>Joint Forming Material In Movement Joints</u>					
8	10mm Bitumen impregnated fibre board built in vertical in one brick wall not exceeding 300mm wide.	m2	101		
<u>Brick Reinforcement</u>					
9	75mm Wide reinforcement built in horizontally.	m	10,977		
10	150mm Wide reinforcement built in horizontally.	m	13,464		
Carried to Collection					
BUILDING WORKS					
Masonry					
				R	

"Montana" Face Bricks Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints

1	One brick sample panel 2 x 1m high, faced and pointed on one side and one end, plastered on the other side and other end and finished on top with brick-on-edge header course	No	1	
2	Extra over ordinary brickwork for face brickwork.	m2	3,584	
3	Extra over brickwork for snapped brick-on-edge cill 200mm wide set sloping and projecting including fair splay cutting under and pointing to top, edge and soffit.	m	356	
4	Extra over brickwork for brick-on-edge header course lintol including pointing to face and soffit.	m	356	
5	Extra over brickwork for cut brick-on-end soldier course lintol including pointing to face and soffit.	m	1,584	

Carried to Collection

BUILDING WORKS
Masonry

R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING (CPAP Work Group No.120)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One Layer Of 250 Micron "Consol Plastics Gunplas USB Green" Or Other Equal And Approved Waterproof Sheeting Sealed At Laps With "Gunplas Pressure Sensitive Tape"</u></p>				
1	Under surface beds	m2	156		
	Carried to Collection				R
	BUILDING WORKS Waterproofing				

Cementitious Waterproofing System Comprising Two Full Coats PMF Waterproof Slurry Applied With A Brush To A Final Dry Film Thickness Of 2 to 3mm

1	On walls.	m2	132	
2	On floors	m2	156	
3	On soffit of slab	m2	156	

JOINT SEALANTS, ETC.

4	Seal and point around aluminium and/or metal window frames with an approved external quality, sealing compound applied with a pressure caulking gun.	m	1,359	
5	Rake out 10mm wide joint filler on vertical surfaces of brickwork or concrete for a depth of 15mm and clean, prime and caulk with an approved external quality poly sulphide ditto.	m	646	

Carried to Collection

BUILDING WORKS
Waterproofing

R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>ROOF COVERINGS, ETC. (CPAP Work Group No.124)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Fixing</u></p> <p>Fixing shall be done according to SABS 1200HB with minimum 150mm end laps where roof pitch exceeds 15 degree and 250mm for other roof pitches</p> <p><u>Guarantee</u></p> <p>All roof coverings and side cladding are to be installed to comply with SABS Code of Practice 0237 where applicable. All roof sheeting shall be laid under a 5 year guarantee for site workmanship and water tightness.</p> <p><u>PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTICS, ETC.</u></p>				
	Carried to Collection				R
	BUILDING WORKS Roof Coverings, Etc.				

0,58mm Thick Chromadek In Double-Interlocking Concealed-Fix Klip-Lok Aluminium Roof Sheeting or similar and approved (Colour: Dark Dolphin) fixed to 50 x 76mm SA Purlins (Purlins measured elsewhere) all in accordance with manufactures specifications

1	Roof covering with pitch not exceeding 7 degrees.	m2	4,160	
2	0.58mm Thick flashing and counter flashing 462mm girth.	m	300	

ROOF INSULATION

Fibreglass Reinforced Aluminium Foil Faced Resin Bonded Glass Fibre Flexible Building Insulation

3	Sisalation FR430 reinforced aluminium foil insulation with 150mm wide laps at all joints, tightly strained and stapled to top of timber rafters under timber purlins.	m2	4,160	
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Carried to Collection

BUILDING WORKS
 Roof Coverings, Etc.

R

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 7</u>				
	<u>CARPENTRY & JOINERY (CPAP Work Group No.126)</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
	<u>Proprietary Products In Descriptions</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
	<u>Joinery</u>				
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc				
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes				
	<u>Fixing</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
	<u>Decorative laminate finish</u>				
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.				
	Carried to Collection				R
	BUILDING WORKS Carpentry & Joinery				

Roof trusses, etc.

Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.

Each roof truss shall have all its members accurately cut and closely butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, precision pressed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions

The design, manufacture and transportation of the roof trusses, bracing, etc shall be under the control of a registered Structural Engineer in accordance with SANS 1900, SANS 10160 and SANS 10163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification

The design shall include for all live loads, wind loads and for dead loads imposed by roof covering, purlins, ceilings, etc

Fully detailed shop drawings of all trusses etc, indicating sizes, bracing, loading, etc, shall be submitted to the Principal Agent for approval prior to fabrication

Unless specific erection instructions are given, erection shall be carried out in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research or as detailed by the designer

Roof trusses and bracing shall include design and preparation of shop drawings

NOTE: The Contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with relevant SANS specifications.

ROOFS, ETC

Carried to Collection

BUILDING WORKS
Carpentry & Joinery

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

<u>Sawn Pine</u>					
1	38 x 76mm Bracing (Provisional).	m	300		
2	38 x 114mm Plate.	m	860		
3	38 x 228mm Gangboarding (Provisional).	m	300		
<u>ROOF CONSTRUCTION</u>					
<u>Prefabricated Timber Roof Construction At A Maximum Of 900mm Centres, 22degree Pitch With A 600mm Overhang, Designed For Metal Roof, Including 76 x 50mm S.A. Pine Purlins At Maximum 750mm Centre To Centre, Tilting Fillet, Runners, Bracing, Cleats, etc</u>					
4	Trusses for rectangular shaped building, size overall 13m2 on plan (Block A).	No	1		
5	Trusses for rectangular shaped building, size overall 165m2 on plan (Block B).	No	1		
6	Trusses for rectangular shaped building, size overall 399m2 on plan (Block C).	No	1		
7	Trusses for rectangular shaped building, size overall 333m2 on plan (Block D).	No	1		
8	Trusses for rectangular shaped building, size overall 332m2 on plan (Block E).	No	1		
9	Trusses for rectangular shaped building, size overall 524m2 on plan (Block F).	No	1		
10	Trusses for rectangular shaped building, size overall 387m2 on plan (Block G).	No	1		
11	Trusses for rectangular shaped building, size overall 383m2 on plan (Block H).	No	1		
12	Trusses for rectangular shaped building, size overall 315m2 on plan (Block I).	No	1		
13	Trusses for rectangular shaped building, size overall 345m2 on plan (Block J).	No	1		
14	Trusses for rectangular shaped building, size overall 382m2 on plan (Block K).	No	1		
	Carried to Collection				
BUILDING WORKS					
Carpentry & Joinery					R

1	Trusses for rectangular shaped building, size overall 51m2 on plan (Block L).	No	1	
2	Trusses for rectangular shaped building, size overall 56m2 on plan (Block M).	No	1	
3	Trusses for rectangular shaped building, size overall 58m2 on plan (Block N).	No	1	
4	Trusses for rectangular shaped building, size overall 78m2 on plan (Block P).	No	1	
<u>EAVES AND VERGES</u>				
<u>Marley Or Similar And Approved Pressed Fibre Reinforced Cement Fascia Cut To Lengths And Butt Jointed With H-Profile Steel Jointing Strips And Fixed With Countersunk Brass Screws</u>				
5	12 x 225mm Fascia or bargeboard.	m	1,354	
<u>SKIRTINGS</u>				
6	75 x 18mm Timber skirting profile or similar approved. Wall/Floor to skirting joints to be sealed with marine clear silicon sealant.	m	1,762	
7	100mm High coved skirting with vuka lux solvent free epoxy or similar and approved.	m	111	
8	69 x 32mm SA Pine Dadorail with chamfer edges.	m	1,705	
<u>DOORS, ETC</u>				
<u>Solid core doors</u>				
<u>44mm Thick Hardwood Braced Back Solid Meranti And Ledged Door Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Galvanised Pressed Metal Frame</u>				
9	Door D7 - Door size overall 813 x 2032mm high	No	1	
Carried to Collection				
BUILDING WORKS Carpentry & Joinery				R

<u>42mm Thick Hardwood Braced Back Solid Meranti And Ledged Door Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Galvanised Pressed Metal Frame</u>					
1	Door D2 - Door size overall 813 x 2032mm high	No	34		
2	Door D6 - Door size overall 1511 x 2032mm high	No	1		
3	Door D11 - Door size overall 813 x 2032mm high	No	1		
<u>40mm Thick Heavy Duty Exterior Quality Single Door Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Galvanised Pressed Metal Frame</u>					
4	Door D12 - Door size overall 813 x 2032mm high	No	4		
<u>40mm Thick Heavy Duty Interior Quality Single Door Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Galvanised Pressed Metal Frame</u>					
5	Door D3 - Door size overall 813 x 2032mm high	No	2		
6	Door D4, D8 & D13 - Door size overall 813 x 2032mm high	No	42		
<u>Semi-solid core doors</u>					
<u>44mm Thick Heavy Duty Interior Quality Single Door Finished On Both Sides With Commercial Veneer Suitable For Paint And Hung On Galvanised Pressed Metal Frame</u>					
7	Door D14 - Door size overall 944 x 2032mm high	No	1		
	Carried to Collection				
BUILDING WORKS Carpentry & Joinery					R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<u>FITTINGS (CPAP Work Group No.126)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>Referencing</u>			
	Where fittings are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.			
1	2465mm high x 455mm wide laminated pine shelving with 525mm high spacing in between shelves	m	135	
2	750x32mm Laminated saligna worktop with 6mm bevelled edges screwed to support brackets from underneath. Fix 19mm quarter round saligna beading to work top against the wall. Finish with 2 coats eggshell polyurethane varnish	m	151	
3	Built-in bench comprises of 32 x 44mm Meranti slats fixed from underneath with brass screws with and including 75 x 50mm continuous angle iron welded to steel frame, 50 x 50 x 3mm angle iron frame. All steel to be sanded and painted 1 coat grey oxide and 2 coats black enamel paint as per Drawing Number S20-03-02-007 Rev C.	m	3	
4	Work station size 2000 x 600 x 750mm High comprises 20mm white silestone, drawers, aluminium skirting, etc as per Drawing Number S20-03-02-001 Rev F. (Block A).		Item	
	Carried to Collection			R
	BUILDING WORKS			
	Fittings			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

1 Kitchen size 2745 x 600 x 900mm High comprises
 20mm thick white stone basic silestone worktop at
 880mm finished floor level, drawer face of 16mm plum
 tree double faced board melamine finish, open shelves,
 75mm standard brushed natural aluminium skirting, etc
 as per Drawing Number S20-03-02-007 Rev C. (Block
 G).

Item

Carried to Collection

R

BUILDING WORKS
 Fittings

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No		Amount
BUILDING WORKS			
Fittings			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	79		
	80		
Carried Forward to Summary of Section No. 2			
BUILDING WORKS			
Fittings			
		R	

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING (CPAP Work Group No.129)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions:</u></p> <p>The sizes of all sawn and wrot timbers are to hold to the full sizes specified.</p> <p>South African Pine shall be referred to as Pine.</p> <p>All items in this section are to be fixed, unless otherwise described, by spiking to wood.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>NAILED UP CEILING</u></p>				
	Carried to Collection				R
	BUILDING WORKS Ceilings, Partitions & Access Flooring				

6,4mm Gypsum Board By Saint Gobain Or Similar And Approved On 38 x 38mm Timber Brandering With Recommended Suspension System, Jointing And Spacing To Strict Manufacturer's Details On Timber Trusses

1	Ceilings fixed to 38 x 38mm sawn softwood brandering at 400mm centres generally in one direction.	m2	3,108	
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2	900 x 900mm Trap door of 38 x 114mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in existing opening.	No	9	
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6,0mm Gypsum Board By Saint Gobain Or Similar And Approved On 38 x 38 Timber Brandering With Recommended Suspension System, Jointing And Spacing To Strict Manufacturer's Details On Timber Trusses

3	Ceilings fixed to 38 x 38mm sawn softwood brandering at 400mm centres generally in one direction.	m2	9	
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4	900 x 900mm Trap door of 38 x 114mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in existing opening.	No	1	
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CORNICES, ETC.

Gypsum Plaster Board

5	75mm Gypsum coved cornice.	m	1,705	
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INSULATION

6	135mm Thick fibreglass insulation (11.5kg/m3 nominal density) closely fitted and laid on top ceiling between metal and suspension system.	m2	3,117	
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Carried to Collection

BUILDING WORKS
Ceilings, Partitions & Access Flooring

R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>FLOOR COVERINGS, WALL LININGS, ETC</u> <u>(CPAP Work Group No.130)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p>Sizes and patterns of vinyl tiles described hereunder may vary from the final specification.</p> <p>No claim for extras in respect of additional labour or wastage will be entertained should final sizes vary from those described hereunder.</p> <p>Rates for vinyl tiling are deemed to include for laying in square or diagonal patterns <u>AND</u> in one or alternating tones of colours as may be specified by the Principal agent and/or Architect</p> <p><u>Cleaning</u></p> <p>Rates for floor covering shall include for cleaning on completion</p> <p><u>Colours</u></p> <p>All materials shall be in colours to be selected by the Principal Agent and, where applicable, laid to approved patterns</p>				
	Carried to Collection				R
	BUILDING WORKS Floor Coverings, Plastic Linings, Etc.				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL No. 11</u></p> <p><u>IRONMONGERY (CPAP Work Group No.132)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Referencing</u></p> <p>Where items are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.</p> <p><u>Descriptions:</u></p> <p>Ironmongery is fixed to timber unless otherwise described.</p> <p><u>IRONMONGERY TO DOORS, FRAMES, ETC</u></p> <p><u>Hinges, Bolts, Etc</u></p>				
1	102 x 75 x 3mm Dorma DBB-SS-009 stainless steel two ball bearing hinge.	No	261		
	Carried to Collection				R
	BUILDING WORKS Ironmongery				

<u>Locks, Etc</u>					
1	Dorma 66mm five pin Euro-profile Double Cylinder Master Keyed (Satin Nickel): DDC106601 MK.	No	44		
2	Dorma Cylinder Sash Lock (Stainless Steel) code: D036S SS.	No	22		
3	WC Indicator bolt.	No	21		
<u>Door Closers</u>					
4	Dorma TS73V EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strenght, Hydraulic Speed Control. Pull Side Fixing (Silver) code:TS73V	No	4		
<u>Stops, Holders, Hooks, Etc</u>					
5	Floor Mounted Door Holder (Satin Chrome on Brass) code: 401	No	58		
6	Anodised silver coat hook rubber tipped ALS8253AS.	No	91		
<u>BATHROOM FITTINGS</u>					
7	32mm Stainless steel side grab rail code: DI2.	No	1		
8	32mm Stainless steel rear grab rail around cistern code SR2A.	No	1		
9	19mm Diameter stainless steel chromium plated towel rail 900mm long including brackets to wall	No	3		
10	Double toilet roll stainless steel holder by Franke code: RODX672 with spindle system for wall mounting.	No	19		
11	12L Pedal operated sanitary waste size 435mm width x 465 height x 115mm depth in each cubicle supplied by Volkem Hygiene or similar and approved.	No	10		
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
<u>Folding type vitreous enamel wall mounted educational range white board or similar approved</u>					
12	Pinning board size 4000 x 1200mm high plugged.	No	53		
	Carried to Collection				
	BUILDING WORKS				
	Ironmongery				
					R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>METALWORK (CPAP Work Group No.136)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Referencing</u></p> <p>Where items are given with type references, these references are to the drawings attached at the back of these Bills of Quantities.</p> <p><u>General:</u></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. shall be designed, manufactured, supplied and installed in strict compliance with the 'Association of Architectural Aluminium Manufactures of South Africa (AAAMSA), General Specification for Architectural Aluminium and Glass Products February 2005 Edition' and SANS 10137.</p> <p>All descriptions shall be deemed to include transoms, mullions, etc. as per the Architect's drawings.</p> <p><u>Design and installation:</u></p>				
	Carried to Collection				R
	BUILDING WORKS Metalwork				

The Sub-Contractor shall be required to design the entire installation, provide all labour, material, equipment and services required to complete the installation as specified herein.

The Sub-Contractor shall ensure that the necessary wind pressure provisions have been incorporated within the design criteria. The Sub-Contractor shall submit his wind design criteria to the Architect for inspection.

The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.

The Sub-Contractor shall allow for and produce fully detailed workshop drawings including samples of all ironmongery within 14 working days of the Main Contractors request.

Fire resistance:

The installation shall conform to the local authorities resistance standards.

Protection and cleaning:

All aluminium must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.) and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion all such protection shall be removed and work cleaned down and left in proper working order.

All glazing is to be protected from damage, breakage, scratches, etc. and allowances shall be made for polishing the glass as and when instructed by the Main Contractor.

GALVANISED PRESSED METAL DOOR FRAMES

1,2mm Thick Double Rebated Pressed Metal Frame Suitable For Half Brick Walls Complete With Straps For Building in, 2x100mm Galvanized & Welded Loose Pin Hinges, Adjust With CP Striking Plate To Be Trimmed As Per 150mm Door Undercut

1

Frame for door size 813 x 2032mm high.

No

42

Carried to Collection

BUILDING WORKS
Metalwork

R

1,2mm Thick Double Rebated Pressed Metal Frame Suitable For One Brick Walls Complete With Straps For Building in, 2x100mm Galvanized & Welded Loose Pin Hinges, Adjust With CP Striking Plate To Be Trimmed As Per 150mm Door Undercut

1	Frame for door size 813 x 2032mm high.	No	43
2	Frame for door size 944 x 2032mm high.	No	1
3	Frame for door size 1511 x 2032mm high.	No	1
4	Frame for door size 1524 x 2134mm high.	No	2
5	Frame for door size 1800 x 2400mm high.	No	4

SUNDRY METALWORK

Razor mesh on Computer Lab & Science Lab

6	On Ceilings	m2	3,046
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Hot Dipped Galvanised After Fabrication Mild Steel Welded Screens And Gates With Frames, Mitred Intersections, Ironmongery, Etc And Fixed Complete All As Attached Drawings

7	Security gate type size 1009 x 2223mm high supplied and installed complete with ironmongery.	No	48
8	Security gate type size 1772 x 2223mm high supplied and installed complete with ironmongery.	No	1
9	Security gate type size 1504 x 2223mm high supplied and installed complete with ironmongery.	No	1
10	Double garden gate type size 2500 x 1800mm high supplied and installed complete with ironmongery. (Refuse Yard).	No	1

Carried to Collection

BUILDING WORKS
Metalwork

R

**ROLLERSTYLE ADD ON INTERNAL SURFACE
MOUNT PRE-PAINTED ALUMINIUM ROLL-UP
DOORS**

1 Push up operation roller shutter door complete with overhead gear, guides, fixing bolts, etc., to suit clear opening size 2100 x 1200mm fixed in position and including mortices in brickwork or concrete for fixing bolts.

No 1

2 Push up operation roller shutter door complete with overhead gear, guides, fixing bolts, etc., to suit clear opening size 2100 x 2125mm fixed in position and including mortices in brickwork or concrete for fixing bolts.

No 1

STEEL STRONGROOM DOORS, VENTILATORS, ETC

3 DS 3 - Strongroom door by Mutual or similar and approved complete 8 Bolts of 40mm diameter-4 front and 4 back boltwork and 7-Lever security keylock.

No 2

4 D16 - Transformer door by Strong hold or similar and approved as per manufacturer.

No 4

The following work to be undertaken by the specialist approved by AAMSA.

Standard Residential Toughened Safety Clear Glazing Windows According To SANS Part N With And Including Factory Fitted Burglary Internally Or Similar Approved. (Refer to Drawing Number S20-03-03-001 Rev B

5 Window type W1 overall size 1778 x 1248mm High.

No 1

6 Window type W2 overall size 1200 x 1375mm High.

No 2

Standard Residential Obscure Glazing Windows According To SANS Part N With And Including Factory Fitted Burglary Internally Or Similar Approved. (Refer to Drawing Number S20-03-03-001 Rev B

7 Window type 9T6B size 889 x 457mm High.

No 38

Carried to Collection

R

BUILDING WORKS
Metalwork

Standard Residential Clear Glazing Windows According To SANS Part N With And Including Factory Fitted Burglary Internally Or Similar Approved. (Refer to Drawing Number S20-03-03-001 Rev B

1	Window type 9TD12 size 889 x 1248mm High.	No	165	
2	Window type 9T4.5 size 889 x 425mm High.	No	86	
3	Window type 9T6A size 889 x 457mm High.	No	104	

Standard Residential Galvanised Steel Doors With And Including Trelli Burglary Internally As Per Drawing Number S20-03-03-001 Rev B

4	D1 - Door size 1524 x 2134mm High.	No	2	
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NATURAL ANODISED ALUMINIUM LOUVRE UNITS

Adjustable louvre units screwed into brickwork

5	Louvre unit for 1200 x 1200mm high opening	No	2	
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Carried to Collection

BUILDING WORKS
Metalwork

R

<u>One Coat Cement Plaster Minimum 15mm Thick (4:1) Finished Smooth With A Steel Float On brickwork</u>				
1	Brick vertical surfaces.	m2	3,534	
2	Concrete walls.	m2	348	
3	In narrow widths.	m2	243	
<u>SKIRTINGS</u>				
4	100mm High cement sand skimmed skirting.	m	367	
Carried to Collection				
BUILDING WORKS Plastering				R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>TILING (CPAP Work Group No.144)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions:</u></p> <p>All tiling is to be fixed with approved adhesive unless otherwise described to screeded or plastered surfaces which are elsewhere measured. All jointing is to be done with an approved grout unless otherwise described.</p> <p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p>				
	Carried to Collection				R
	BUILDING WORKS Tiling				

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 15</u>				
	<u>PLUMBING & DRAINAGE (PROVISIONAL)</u> <u>(CPAP Work Group No.146 & 148)</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
	<u>Proprietary Products In Descriptions</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
	<u>RAIN WATER GOODS</u>				
	<u>Marley "PVC" Gutter Or Similar Approved In Maximum Possible Length & Fixed With Concealed Brackets Laid To Fall 1:200 Towards Outlet. Joints At corners Etc, If Any Are To Be Accurately Formed, Selaed & Rivetted To Achieve A Watertight Finish. Brackets To Be Fixed At Maximum 1m Centres</u>				
1	100mm Eaves gutters.	m	663		
2	Extra over gutter for stopped end.	No	52		
3	Extra over 75mm diameter eaves gutter for outlet for 75mm diameter pipe.	No	47		
4	75mm Diameter section fluted rainwater pipe fixed 25mm clear of walls with galvanised sheet iron ears screwed to and including 150 x 70 x 22mm chamfered and oiled hardwood blocks plugged to wall.	m	142		
	Carried to Collection				R
	BUILDING WORKS				
	Plumbing & Drainage (Provisional)				

1	Extra over rainwater pipe for shoe.	No	47	
	<u>SOIL DRAINAGE</u>			
	<u>Rigid PVC Socketed Soil Piping (SABS 791) With Bedding And Filling As Laid Out In SABS 1200 LB - Bedding Flexible Pipes, Backfilling With Excavated Material</u>			
2	160mm Pipe and excavation not exceeding 1000mm deep.	m	315	
	<u>Extra For</u>			
3	160mm Bend	No	15	
4	160mm Access junction.	No	5	
	<u>SANITARY FITTINGS</u>			
	<u>NOTE:</u>			
	<u>All fittings butting up against wall or floor finishes are to be sealed with an approved silicone sealer to the Architects satisfaction.</u>			
	<u>-----</u>			
	<u>Stainless Steel Sinks, Drainers And Urinals</u>			
5	Franke Model ET102 Double Fabricated Economy Type Washtrough, 1030x440x300mm deep. Unit to be manufactured from Grade 430 (17/10) Stainless Steel, 0,8mm gauge. Unit to be manufactured with a sloped front, with wash ridges and a 40mm waste outlet. Trough to be supplied with fixing lugs to mount the trough to the wall. (Bolts to specialist).	No	1	
6	Franke Model ET101 Single Fabricated Economy Type Washtrough, 540x440x300mm deep or similar and approved. Unit to be manufactured from Grade 430 (17/10) Stainless Steel, 0,8mm gauge. Unit to be manufactured with a sloped front, with wash ridges and a 40mm waste outlet. Trough to be supplied with fixing lugs to mount the trough to the wall. (Bolts to specialist).	No	3	
	Carried to Collection			R
	BUILDING WORKS			
	Plumbing & Drainage (Provisional)			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	'Franke' 1200 mm x 500 mm Cascade Stainless steel (CDX 621-120) or equal and approved; installed to strict manufacturer's specifications, with sink lever mixer with aerated swivel outlet; un-slotted c.p. sink waste with backnut and plug with stirrup(code 317-40), and 'p' trap, with deep seal and cleaning eye (code va2.341). Sink installation height = 900mm affl.	No	1	
2	'Franke' 925 mm x 500 mm Cascade Stainless steel (CDX 621-120) or equal and approved; installed to strict manufacturer's specifications, with sink lever mixer with aerated swivel outlet; un-slotted c.p. sink waste with backnut and plug with stirrup(code 317-40), and 'p' trap, with deep seal and cleaning eye (code va2.341). Sink installation height = 900mm affl.	No	1	
3	Ceramic fireclay 435 x 335 x 180mm rectangular laboratory sink without overflow, with centre end waste outlet by Vaal or similar and approved complete with fittings to specialist details, with bench mounted cold water tap.	No	8	
	<u>"Vaal" or Similar And Approved</u>			
4	Vitreous China "Hibiscus Elite" close coupled 90 degrees , 4 Outlet rim top dual flush suite (6/3 litre) Code 772401 installed to strict manufacturers specifications	No	4	
5	Vitreous China "Tuscany" 560 x 415mm (7006) rounded basins with single centred tap hole configuration or similar and approved, with 40mm 316 c.p basin waste and 1(one) 20mm and 365/40 cp bottle trap. Basin to be installed on classic floor mounted pedestal (7157) and secured to wall. Use white marine silicone sealant or equivalent and approved under pedestal foot and between basin and wall.	No	5	
6	Vitreous China "Tuscany" 560 x 415mm (7006) rounded basin with three semi ounctured tap hole configuration or similar and approved, with 40mm 316 cp basin waste and 1no. 20mm and 365/40 cp bottle trap. Basin to be installed on Universal half pedestal with two 6mm fixing screws (Code 715222) and secured to wall. Use white marine silicone sealant or equivalent approved under pedestal for and between basin and wall	No	1	
	Carried to Collection			R
	BUILDING WORKS Plumbing & Drainage (Provisional)			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Vitreous China "Pearl Paraplegic "semi-close coupled 90 degrees Outlet rim and matching 9 litres cistern complete with lid, fittings and purpose made C.P. side flush (eft or right) Including purpose made thermoset seat and cover plate. Complete with - 32mm stainless steel side grab rail code D12 - 32mm stainless steel side grab rail around cistern code SR2A NOTE: - Grabrail supplied by Chairman Industries	No	1		
2	Vitreous China "Flatback " urinal. Overall size 415 x 315 x 275mm, Supplied with 38mm cp domical grating (code 8787Z0) cp top inlet spreader (code 8543Z0), and two hanger brackets (Code 8127Z0) and cp trap including exposed inlet flush valve (Cobra FJ600 Flush master or equivalent with FJT 5.5 Flush pipe).	No	2		
3	Ceramic fireclay 435x335x180mm rectangular laboratory sink without overflow with centred end waste outlet complete with fittings to specialist details with bench mounted cold tap complete with Z9A-PHIX under sink ACID NEUTRALIZATION CARTRIDGES SYSTEM BY Zurn or similar and approved <u>"Atlas Plastic" or Similar And Approved</u>	No	8		
4	222AP VIP 200 pedestal w/c flap and incorporated seat including VIP inlet funnel code 224AP.	No	15		
5	496AP bowl urinal c/w brackets complete with waterless urinal fitting and waste.	No	5		
6	383AP christy basin with splashback complete with all mountings <u>"Volkem" or Similar And Approved</u>	No	8		
7	Golden Touch Soap Dispenser Lockable 1200ml- Stainless steel	No	6		
8	Excel Manual Paper Towel Dispenser, Grade 30 1,2mm brushed- Stainless steel	No	5		
	Carried to Collection				R
	BUILDING WORKS Plumbing & Drainage (Provisional)				

<u>Cobra or Similar And Approved</u>				
1	200 x 145mm square single function shower rose/head (Code :075SQ-15) with 1/2 BPS Female Inlet complete with chrome plated square design shower arm and 1/2 male inlet.	No	1	
<u>uPVC</u>				
2	110mm Vent pipe	No	15	
3	Urinal offset tail pipe	No	5	
<u>TAPS, VALVES, ETC.</u>				
<u>Chromium Plated Brass Fittings Including Couplings To Copper</u>				
4	Aqualine S- Aqua 205 Self Closing Bib Tap by Franke or similar and approved.	No	8	
5	Aquamix S- Aqua 200 Self Closing Bib Tap by Franke or similar and approved.	No	4	
6	Star Chrome of extended Bib Tap by Cobra or similar and approved.	No	6	
7	Elbow action (505-21R) by Cobra or similar and approved square type pillar tap with a red indice. 1/2 male inlet SANS 226 Type 2	No	1	
8	Kitchen Heritage: PA-870 by Cobra or similar and approved; installed to strict manufacturer's specifications, complete with 40mm raised cartridge T&F, controlled S-750-1, Handle S-PA870-2, Connection hoses C-M10X1/2 (SANS 1480).	No	2	
9	Heritage: PA-851 by Cobra or similar and approved; installed to strict manufacturer's specifications, Single lever basin mixer 1/2 BSP Female inlets.	No	1	
10	Single lever bath or shower undertile mixer (Protea: PA745 by Cobra or similar and approved) complete with undertile mixer, faceplate and handle	No	1	
11	Single Swanneck Water tap by Labscheme Allchem or similar and approved.	No	8	
	Carried to Collection			R
BUILDING WORKS Plumbing & Drainage (Provisional)				

TESTING

- 1 Allow for testing all drains, sanitary plumbing and water supplies to the satisfaction of the Architect and to Municipal requirements. All defective work is to be taken out and replaced at the Contractor's expense.

Item

Carried to Collection

R

BUILDING WORKS
 Plumbing & Drainage (Provisional)

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 16</u>				
	<u>GLAZING (CPAP Work Group No.150)</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
	<u>Proprietary Products In Descriptions</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>				
	<u>6mm Thick Silvered Float Glass Copper Backed Mirrors With 10mm Bevelled And Polished Edges Holed For And Fixed With Chromium Plated Dome Capped Mirror Screws With Rubber Buffers To Plugs In Ceramic Tiled Wall</u>				
1	Mirror size 450 x 900mm high.	No	13		
	<u>6mm thick Obscure Safety Glass</u>				
2	Shower sliding door size 1100 x 1200mm high.	No	1		
	Carried Forward to Summary of Section No. 2				R
	BUILDING WORKS				
	Glazing				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 17</u></p> <p><u>PAINTWORK (CPAP Work Group No.152)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions:</u></p> <p>All concrete surfaces are smooth unless otherwise described.</p> <p>All surfaces of walls are internal unless otherwise described.</p> <p>All plaster surfaces are smooth (floated) unless otherwise described.</p> <p><u>PLASTERED WALLS</u></p> <p><u>Prepare And Apply One Coat Primer And Two Coats Stain Resistant And Washable Water Based Smooth Low Sheen Colour To Later Spec On</u></p>				
1	Internal plastered walls, columns, recessed bends, etc.	m2	4,143		
	<p><u>WOOD</u></p>				
	Carried to Collection				R
	BUILDING WORKS				
	Paintwork				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Bill No		Page No	Amount
	BUILDING WORKS		
	<u>SECTION SUMMARY - BUILDING WORKS</u>		
	Earthworks (Provisional)	55	
	Concrete, Formwork & Reinforcement	60	
	Precast Concrete	61	
	Masonry	66	
	Waterproofing	69	
	Roof Coverings, Etc.	72	
	Carpentry & Joinery	78	
	Fittings	81	
	Ceilings, Partitions & Access Flooring	84	
	Floor Coverings, Plastic Linings, Etc.	87	
	Ironmongery	91	
	Metalwork	97	
	Plastering	100	
	Tiling	103	
	Plumbing & Drainage (Provisional)	110	
	Glazing	111	
	Paintwork	114	
	Carried to Final Summary		R
	BUILDING WORKS		

Item No	Quantity	Rate	Amount
<p><u>BILL No. 1</u></p> <p><u>EXTERNAL WORKS (CPAP Work Group No.154)</u></p> <p><u>SITE EXCAVATIONS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>The successful contractor will be required to procure and purchase 40% of all goods/materials in the Eastern Cape Province.</u></p> <p><u>As such, the measurable items with marked with ECB (Eastern Cape Buy) are the proposed material to be purchased in the Eastern Cape Province.</u></p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p>			
			R
EXTERNAL WORKS Site Excavations (Provisional)	Carried to Collection		

Nature Of Material To Be Excavated

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"

Carting Away Of Excavated Material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Remeasurement

Final remeasurement of quantities to be done after completion

Carried to Collection

EXTERNAL WORKS
 Site Excavations (Provisional)

R

QUALIFICATION TO STANDARD SYSTEM OF MEASURING

These Bills of Quantities and General specification are to be read in conjunction with SABS 1200.

NOTE: Clause 8 of SABS 1200 - Measurement and payment in the above mentioned specification will not be applicable and the description and rates in this document will form

the basis for calculating the final value of the works

together with any variations authorised by the Architect/Engineer

Notwithstanding the clauses of the Standard System of Measuring Builder's Work - Amendments to 6th Edition and also the preceding Preambles, various alterations and adjustments have been made in the preparation of the Bulk Earthworks Bills of Quantities.

Tenderers are to note the alterations and adjustments within the relevant clauses and price accordingly. No claims will be entertained regards these alterations and adjustments.

SEQUENCE OF WORKS

Restricted access of the works, access to and from the site, discontinuity of works must be assessed and included for in the relevant items herein.

EARTHWORKS

Nature of ground

Descriptions of excavations shall be deemed to include all ground conditions other than "Hard Rock".

"Hard Rock" shall mean granite, quartzitic sandstone or other rock of similar hardness which, in the Engineers opinion, requires drilling, wedging and splitting or the use of explosives etc.

All excavation volumes are measured nett - no allowance made for bulking

EARTHWORKS

Carried to Collection

EXTERNAL WORKS
 Site Excavations (Provisional)

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

<u>Site Clearance</u>				
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	35,710	
<u>Excavations, Filling, Etc</u>				
2	Excavate in earth to open face over site to reduce levels.	m3	9,739	
3	Extra over bulk excavations in earth for excavation in soft rock.	m3	1,071	
4	Ditto, but in hard rock.	m3	268	
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	5,357	
6	Allow for keeping excavations free from water.		Item	
7	Extra over excavations material for stockpiling.	m3	5,357	
8	Backfilling with excavated material, deposited in layers not exceeding 150mm Thick, watered and consolidated to 93% modified AASHTO density to platforms	m3	5,357	
9	G5 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 96% modified AASHTO density to platforms, etc.	m3	4,383	
<u>Testing</u>				
10	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	28	
Carried to Collection				
EXTERNAL WORKS				
Site Excavations (Provisional)				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No		Amount
EXTERNAL WORKS			
Site Excavations (Provisional)			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	116		
	117		
	118		
	119		
Carried Forward to Summary of Section No. 3			
EXTERNAL WORKS			
Site Excavations (Provisional)			
		R	

Item No		Quantity	Rate	Amount
	<u>BILL No. 2</u>			
	<u>SECURITY FENCING AND GATES (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371 with its latest ammendements"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>Proprietary Products In Descriptions</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
	<u>Fencing</u>			
	<u>Reinforced Concrete</u>			
	All to be constructed as per manufactures specification			
	<u>Site Clearance</u>			
1	Allow for clearing site for the width of 1 000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m	966	
2	Excavate in earth not exceeding 2m deep and fill adjacent portion to make up levels under fence line.	m3	32	
	<u>Cement Concrete (15 MPa) Mass in</u>			
3	Concrete blinding cast against excavated surfaces.	m3	24	
	<u>IRONMONGERY</u>			
	Carried to Collection			R
	EXTERNAL WORKS			
	Fencing (Provisional)			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Fencing (Provisional)		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	121	
	122	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Fencing (Provisional)		

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 3</u></p> <p><u>WALKWAYS, ROADWORKS, PARKING & ASSEMBLY AREA (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>			
	Carried to Collection			R
	EXTERNAL WORKS Walkways, Roads, Parkings And Assembly Area			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

EARTHWORKS

Excavations, Filling, Etc

1	Excavate in earth to reduce levels under roads not exceeding 2000mm deep.	m3	1,415
2	Extra over bulk excavations in earth for excavation in soft rock.	m3	53
3	Ditto, but in hard rock.	m3	36
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	2,111
5	Allow for keeping excavations free from water.		Item

Carried to Collection

EXTERNAL WORKS

Walkways, Roads, Parkings And Assembly Area

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 500mm thick sub-base course under roads.	m3	360	
2	G5 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 150mm thick sub-base course under roads.	m3	881	
3	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	4,990	
<u>CONCRETE</u>				
<u>TESTSNOTE: Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor.-----</u>				
4	Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional).	No	12	
<u>Un-reinforced Cement Concrete (15MPa) In</u>				
5	Blinding.	m3	35	
<u>Reinforced Cement Concrete (25MPa) In</u>				
6	Slabs including beams and inverted beams.	m3	161	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing Top Surfaces Of Concrete Smooth With A Wood Float</u>				
7	Surface beds, slabs, etc.	m2	698	
<u>REINFORCEMENT</u>				
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>				
8	Diameter bars.	t	1.31	
Carried to Collection				R
EXTERNAL WORKS				
Walkways, Roads, Parkings And Assembly Area				

<u>Fabric Reinforcement To Concrete Work</u>				
1	High tensile steel mesh Ref. 311 to concrete surface beds, slabs, etc.	m2	1,396	
<u>BRICKWORK IN SUPESTRUCTURE</u>				
<u>Brickwork Of NFX Bricks (14Mpa Nominal Compressive Strength) In Class I Cement Mortar</u>				
2	Half brick wall linings to raft beams.	m2	292	
3	Attached piers, projections, etc.	m3	25	
<u>BLOCK PAVING</u>				
<u>Coloured Precast Cement Concrete (25MPa) Interlocking Paving Bricks Size 200 x 100 x 80mm Thick Laid On And Including 45mm Thick Sand Bed With Joints Filled With Sand</u>				
4	Paving to patterns as architects design and to falls and cross falls.	m2	4,292	
<u>BRICKWORK SUNDRIES</u>				
<u>Brick Reinforcement</u>				
5	75mm Wide reinforcement built in horizontally.	m	3,432	
<u>PRECAST CONCRETE</u>				
<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>				
6	Fig. 8 kerb size 150 x 230mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 45mm thick x 230mm wide layer of 3.1 cement mortar with 100 x 100 x 200mm long triangular haunching behind kerb at all joints and jointed in 3.1 cement mortar.	m	510	
<u>WATERPROOFING</u>				
Carried to Collection				R
EXTERNAL WORKS Walkways, Roads, Parkings And Assembly Area				

	<u>Two Layers 250 Micron Waterproof Sheeting With Staggered Joints</u>				
1	On compacted earth under concrete and paving bricks.	m2	4,990		
	<u>ROAD MARKINGS</u>				
	<u>Single Pack Solvent-Based Coatings For The Marking Of Road Surfaces To Comply With SANS 731. Colour: Matt White And Matt Golden Yellow</u>				
2	Parking lines 100mm wide on pavement.	m	168		
3	Directional signs.	No	6		
4	Disable sign.	No	1		
	<u>SETTING OUT</u>				
5	Setting out and premarking for lines.			Item	
	<u>PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTICS, ETC.</u>				
	<u>0,58mm Thick Chromadek In Double-Interlocking Concealed-Fix Klip-Lok Aluminium Roof Sheeting or similar and approved (Colour: Dark Dolphin) fixed to 50 x 76mm SA Purlins (Purlins measured elsewhere) all in accordance with manufactures specifications</u>				
6	Roof covering with pitch not exceeding 7 degrees.	m2	698		
	<u>RAINWATERGOODS</u>				
	<u>Marley "PVC" Gutter Or Similar Approved In Maximum Possible Length & Fixed With Concealed Brackets Laid To Fall 1:200 Towards Outlet. Joints At corners Etc, If Any Are To Be Accurately Formed, Selaed & Rivetted To Achieve A Watertight Finish. Brackets To Be Fixed At Maximum 1m Centres</u>				
7	100mm Eaves gutters.	m	149		
	Carried to Collection				
	EXTERNAL WORKS				
	Walkways, Roads, Parkings And Assembly Area				
					R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

EXTERNAL WORKS

Walkways, Roads, Parkings And Assembly Area

COLLECTION

Total Brought Forward from Page No.

Page
No

124

125

126

127

128

Amount

Carried Forward to Summary of Section No. 3

R

EXTERNAL WORKS

Walkways, Roads, Parkings And Assembly Area

Item No		Quantity	Rate	Amount
	<u>BILL No. 4</u>			
	<u>WATER TANKS & STANDS (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>RAINWATER TANKS AND STANDS</u>			
	<u>Excavations, Filling, Etc</u>			
1	Excavate in earth for trenches	m3	23	
2	Extra over excavations in earth for excavation in soft rock.	m3	10	
3	Extra over excavations in earth for excavation in hard rock.	m3	5	
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	23	
5	Allow for keeping excavations free from water.		Item	
6	Earth filling (G5), selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under floors, etc.	m3	78	
7	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 50mm thick blinding layer under floors, etc.	m3	3	
	Carried to Collection			
	EXTERNAL WORKS			
	Water Tanks & Stands			
			R	

1	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	57	
2	Tricate weed killer in proportion 168kg to 1124 litres of water per hectare plus Agrol 90 sprayed onto surfaces of ground under floors, etc.	m2	57	
<u>TESTING</u>				
3	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Consultant within 24 hours of the tests being completed.	No	6	
<u>CONCRETE</u>				
<u>Un-reinforced Cement Concrete (15MPa) In</u>				
4	Filling in cavity walls.	m3	15	
<u>Reinforced Cement Concrete (25MPa) In</u>				
5	Footings.	m3	23	
6	Cement concrete in water tank stands cast in panels not exceeding 6m2.	m3	11	
<u>REINFORCEMENT</u>				
<u>Fabric Reinforcement To Concrete Work</u>				
7	High tensile steel mesh Ref. 193 to concrete walkways, slabs, etc.	m2	115	
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>				
8	Diameter bars.	t	2.29	
<u>MOVEMENT JOINTS, ETC</u>				
<u>Bitumen Impregnated Soft board Expansion Joints</u>				
9	Joint formed of one layer 10mm thick soft board set between vertical concrete or brick surfaces.	m2	11	
Carried to Collection				
EXTERNAL WORKS				
Water Tanks & Stands				
				R

Water Storage Tanks

1	5000 Litre Polyethylene water storage tank complete with lid and setting in position on concrete base (elsewhere) including tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to base.	No	13	
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TAPS

Lockable tap cover provided with padlock

2	Water tank taps with padlock.	No	13	
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Carried to Collection

EXTERNAL WORKS
 Water Tanks & Stands

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

EXTERNAL WORKS

Water Tanks & Stands

COLLECTION

Total Brought Forward from Page No.

Page
No

130

131

132

133

Amount

Carried Forward to Summary of Section No. 3

EXTERNAL WORKS
 Water Tanks & Stands

R

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 5</u></p> <p><u>SOCCER FIELD AND IRRIGATION SYSTEM (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>			
	Carried to Collection			R
	EXTERNAL WORKS Soccer Filed (Provisional)			

<u>Density Testing On Filling</u>					
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved					
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally					
<u>Formwork</u>					
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"					
<u>Reinforced Concrete</u>					
All reinforced concrete is to be compacted with a mechanical vibrator.					
All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.					
<u>EARTHWORKS</u>					
<u>Excavations, Filling, Etc</u>					
1	Gravel material in compacted layer thickness of 150mm or less from Commercial source.	m3	750		
<u>FERTILIZERS</u>					
<u>Supply And Store Materials</u>					
2	Super-phosphate.	m2	5,000		
3	LAN (Lime stone Ammonia Nitrate).	m2	5,000		
4	Add and mix into Topsoil layer. Supephosphate at rate of 100gm/m2.	m2	5,000		
5	Apply to newly planted surface LAN (Lime stone Ammonia Nitrate) a a rate 50gm/m2.	m2	5,000		
Carried to Collection					R
EXTERNAL WORKS Soccer Filed (Provisional)					

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Apply to growing grass LAN (Lime stone Ammonia Nitrate) at rate 50gm/m2.	m2	5,000		
<u>GRASSING</u>					
2	Supply store and maintain approved kikuyu grass or similar.	m2	5,000		
3	Apply grass to prepared areas.	m2	5,000		
4	Rake into surface and roll with light roller/ Sandpro tyres.	m2	5,000		
5	100 mm Whitewash lines painted on grass.		Item		17,000.00
6	Soccer Goal posts comprises bases, posts, soccer nylon net, footings, etc. As per drawing No.012/DoE/IDT/MGG/2018.	No	1		
7	Rugby goal posts comprises padding, 75 & 150mm diameter bars as per the drawing..	No	1		
<u>WATERING</u>					
8	Prior to grassing. Water entire surface to be seeded to obtain moist conditions to not less than 150mm deep including cost of water.	m2	5,000		
9	Water and maintain newly planted areas immediately after planting and as often as directed by the Engineer until grass is established . (established will be regarded as general cover with bare "spots" of no more than 10% and no "spots" larger than 250mm in diameter. Should cover not be adequate, in the opinion of the Engineer, re grassing at the contractor's expense must be under taken.		Item		20,000.00
<u>MOWING</u>					
10	Mowing new established grass, when directed by the Engineer using acceptable motorized mowers including disposal of cuttings off site (3 visits).	m2	5,000		
				Carried to Collection	
EXTERNAL WORKS				R	
Soccer Filed (Provisional)					

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Soccer Filed (Provisional)		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	135	
	136	
	137	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Soccer Filed (Provisional)		

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 6</u></p> <p><u>COMBI COURTS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>			
	Carried to Collection			R
	EXTERNAL WORKS Combicourt			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Remeasurement

Final remeasurement of quantities to be done after completion

QUALIFICATION TO STANDARD SYSTEM OF MEASURING

These Bills of Quantities and General specification are to be read in conjunction with SABS 1200.

NOTE: Clause 8 of SABS 1200 - Measurement and payment in the above mentioned specification will not be applicable and the description and rates in this document will form the basis for calculating the final value of the works together with any variations authorised by the Architect/Engineer

Carried to Collection

EXTERNAL WORKS
 Combicourt

R

Notwithstanding the clauses of the Standard System of Measuring Builder's Work - Amendments to 6th Edition and also the preceding Preambles, various alterations and adjustments have been made in the preparation of the Bulk Earthworks Bills of Quantities.

Tenderers are to note the alterations and adjustments within the relevant clauses and price accordingly. No claims will be entertained regards these alterations and adjustments.

SEQUENCE OF WORKS

Restricted access of the works, access to and from the site, discontinuity of works must be assessed and included for in the relevant items herein.

EARTHWORKS

Nature of ground

Descriptions of excavations shall be deemed to include all ground conditions other than "Hard Rock".

"Hard Rock" shall mean granite, quartzitic sandstone or other rock of similar hardness which, in the Engineers opinion, requires drilling, wedging and splitting or the use of explosives etc.

All excavation volumes are measured nett - no allowance made for bulking

EARTHWORKS

Site Clearance

Excavations, Filling, Etc

1	Excavate in earth not exceeding 2m deep and fill adjacent portion to make up levels under fence line.	m3	126
2	Extra over excavations material for stockpiling.	m3	126
3	Allow for keeping excavations free from water.		Item
4	Backfilling with excavated material, deposited in layers not exceeding 150mm Thick, watered and consolidated to 93% modified AASHTO density to platforms.	m3	126

Carried to Collection

EXTERNAL WORKS
Combicourt

R

1	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density.	m3	126		
2	G5 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 96% modified AASHTO density to platforms, etc.	m3	126		
3	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	841		
	<u>Cement Concrete (20 MPa) Mass in</u>				
4	Bases.	m3	80		
	<u>Tack Coat And Premix 30mm To Suppliers Specifications And Approved By Engineer</u>				
5	Combi courts.	m2	791		
	<u>BLOCK PAVING</u>				
	<u>Coloured Precast Cement Concrete (25MPa) Interlocking Paving Bricks Size 200 x 100 x 80mm Thick Laid On And Including 45mm Thick Sand Bed With Joints Filled With Sand</u>				
6	Paving to patterns as architects design and to falls and cross falls.	m2	50		
	<u>PRECAST CONCRETE</u>				
	<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>				
7	Fig. 8 kerb size 150 x 230mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 45mm thick x 230mm wide layer of 3.1 cement mortar with 100 x 100 x 200mm long triangular haunching behind kerb at all joints and jointed in 3.1 cement mortar.	m	42		
	<u>DAMP PROOFING TO WALLS AND FLOORS</u>				
	Carried to Collection				
	EXTERNAL WORKS				
	Combicourt				
				R	

<u>One Layer 250 Micron Waterproof Sheeting</u>					
1	Under ground beams and surfacebeds.	m2	841		
<u>IRONMONGERY</u>					
<u>Locks, Etc</u>					
2	"Union 3122" heavy duty padlock	No	2		
<u>SUNDRY METALWORK</u>					
<u>Galvanised Diamond Mesh Fence Welded Screens And Gates With Frames, Mitred Intersections, Ironmongery,Etc And Fixed Complete</u>					
3	76mm x 3mm hot dipped galvanized posts for tennis nets cast into concrete 2m high.	No	4		
4	Tennis nets as per manufacturers specifications fixed to handle and tied down to post. (Refer to Drawing Number S20-03-03-002, Drawing Number 2608-A-MS-01 & Drawing Number 2608-A-MS-02).	No	1		
5	Paint markings and signs complete for Tennis, Netball, Basketball and Volleyball Court as per Drawing Number S20-03-03-002.			Item	
6	Netball goal posts including housing and foundations. (Refer to Drawing Number S20-03-03-002, Drawing Number 2608-A-MS-01 & Drawing Number 2608-A-MS- 02).	No	2		
7	Basketball goal posts including housing and foundations. (Refer to Drawing Number S20-03-03-002, Drawing Number 2608-A-MS-01 & Drawing Number 2608-A-MS-02).	No	2		
Carried to Collection					
EXTERNAL WORKS					
Combicourt					
					R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

1 Volleyball goal posts including housing and foundations.
 (Refer to Drawing Number S20-03-03-002, Drawing
 Number 2608-A-MS-01 & Drawing Number 2608-A-MS-
 02).

No

1

SUNDRIES

2 Provide and install 6mm eye bolts cast in-situ into the
 edge beam.

No

76

Carried to Collection

EXTERNAL WORKS
 Combicourt

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Combicourt		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	139	
	140	
	141	
	142	
	143	
	144	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Combicourt		

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 7</u></p> <p><u>NETBALL COURTS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>			
	Carried to Collection			R
	EXTERNAL WORKS Netball Court			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

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Formwork

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Remeasurement

Final remeasurement of quantities to be done after completion

QUALIFICATION TO STANDARD SYSTEM OF MEASURING

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NOTE: Clause 8 of SABS 1200 - Measurement and payment in the above mentioned specification will not be applicable and the description and rates in this document will form the basis for calculating the final value of the works together with any variations authorised by the Architect/Engineer

Carried to Collection

EXTERNAL WORKS
 Netball Court

R

Notwithstanding the clauses of the Standard System of Measuring Builder's Work - Amendments to 6th Edition and also the preceding Preambles, various alterations and adjustments have been made in the preparation of the Bulk Earthworks Bills of Quantities.

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SEQUENCE OF WORKS

Restricted access of the works, access to and from the site, discontinuity of works must be assessed and included for in the relevant items herein.

EARTHWORKS

Nature of ground

Descriptions of excavations shall be deemed to include all ground conditions other than "Hard Rock".

"Hard Rock" shall mean granite, quartzitic sandstone or other rock of similar hardness which, in the Engineers opinion, requires drilling, wedging and splitting or the use of explosives etc.

All excavation volumes are measured nett - no allowance made for bulking

EARTHWORKS

Excavations, Filling, Etc

1	Allow for keeping excavations free from water.		Item	
2	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density.	m3	126	
3	G5 type filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 96% modified AASHTO density to platforms, etc.	m3	126	
4	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	841	

Carried to Collection

EXTERNAL WORKS
Netball Court

R

	<u>Cement Concrete (20 MPa) Mass in</u>				
1	Bases.	m3	106		
	<u>Tack Coat And Premix 50mm To Suppliers Specifications And Approved By Engineer</u>				
2	Netball courts.	m2	841		
	<u>DAMP PROOFING TO WALLS AND FLOORS</u>				
	<u>One Layer 250 Micron Waterproof Sheeting</u>				
3	Under ground beams and surfacebeds.	m2	841		
	<u>IRONMONGERY</u>				
	<u>Locks, Etc</u>				
4	"Union 3122" heavy duty padlock	No	2		
	<u>SUNDRY METALWORK</u>				
	<u>Galvanised Diamond Mesh Fence Welded Screens And Gates With Frames, Mitred Intersections, Ironmongery,Etc And Fixed Complete</u>				
5	38 x38 x 2mm diamond mesh wire fence tied to straining posts and wires.	m2	805		
6	4mm straining wires tied to straining posts.	m	50		
7	51 x2mm Hot dipped galvanized posts into foundations 4100mm long.	No	28		
8	Ditto, but 5000mm high.	No	40		
9	Ditto, but 5000mm high bracing posts.	No	8		
10	Single pedestrian gate size 900 x 1900mm high made with hot dipped galvanized surrounds and bracing including locking mechanism.	No	2		
11	38mm x 2mm access gate circular ring to top of post.	No	4		
12	End cap plates to open ended posts end cap plates to open ended posts.	No	68		
	Carried to Collection				
	EXTERNAL WORKS				
	Netball Court				
					R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Netball Court		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	146	
	147	
	148	
	149	
	150	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Netball Court		

Item No		Quantity	Rate	Amount
	<u>BILL No. 8</u>			
	<u>STORMWATER DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>V-DRAINS</u>			
1	1200mm Wide x 150mm thick V-shaped concrete (25MPa) open surface water channel laid to falls in lengths not exceeding 2500mm on a well rammed earth bottom including excavation, formwork, softboard joints, saw cuts, damp proof membrane, reinforcement, ramming and depositing and levelling spoil on site where directed. (reinforcement measured elsewhere)	m	450	
2	Extra for angles, intersections, ends, dressing into sides of catchpits, etc.	No	50	
	<u>110mm Diameter Stormwater Pipes Laid In Ground Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>			
3	100mm Diameter pipe and excavation exceeding 1000mm deep and not exceeding 2000mm deep.	m	425	
	<u>300mm 50D Stormwater Pipes Laid In Ground In And Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>			
4	300mm Pipe and excavation exceeding 1000mm deep and not exceeding 2000mm deep.	m	125	
	Carried to Collection			R
	EXTERNAL WORKS			
	Stormwater Drainage			

	<u>450mm 50D Stormwater Pipes Laid In Ground In And Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>				
1	450mm Pipe and excavation exceeding 1000mm deep and not exceeding 2000mm deep.	m	151		
	<u>525mm 50D Stormwater Pipes Laid In Ground In And Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>				
2	525mm Pipe and excavation exceeding 1000mm deep and not exceeding 2000mm deep.	m	63		
	<u>CATCHPIT</u>				
	<u>Catchpit, Including Excavation Concrete, Precast Concrete, Brickwork, Benching, Plaster, Etc.</u>				
3	Excavate for and build catchpit size 1000 x 1450 x 1500mm deep internally, formed of 150mm thick cement concrete (15MPa) bottom, half brick sides 150mm high cement concrete (20MPa) kerb around top, rebated for and fitted with galvanised mild steel grating of 12 x 40mm frame filled in with 12 x 40mm cross bars at 30mm centres, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	16		
	Carried to Collection				R
	EXTERNAL WORKS Stormwater Drainage				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Stormwater Drainage		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	152	
	153	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Stormwater Drainage		

Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<u>RETAINING WALLS (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>EXCAVATIONS, FILLING, ETC</u>			
1	Excavate in earth for retaining walls not exceeding 2000mm deep.	m3	127	
2	Extra over excavations in earth to retaining walls for excavation in soft rock.	m3	25	
3	Ditto, but in hard rock.	m3	19	
4	Allow for keeping excavations free from water.		Item	
5	Ant proofing treatment to retaining walls, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	646	
6	Earth filling supplied G7 Material by the Contractor, compacted to 93% Mod AASHTO density.	m3	873	
7	Selected granular fill 200mm thick compacted to 98% MOD AASHTO	m3	339	
8	400mm thick Backfilling compacted behind wall	m3	388	
	Carried to Collection			R
	EXTERNAL WORKS			
	Retaining Walls			

<u>BLOCKWORK</u>				
1	Loffel-stein L500 precast concrete blocks filled with cleansoil	m2	970	
<u>TESTING</u>				
2	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	6	
<u>CONCRETE</u>				
<u>CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>Cement Concrete (15MPa) In</u>				
3	Blinding under bases.	m3	18	
<u>Cement Concrete (25MPa) In</u>				
4	Footings.	m3	127	
<u>Fabric Reinforcement To Concrete Work</u>				
5	High tensile steel mesh Ref. 193 to concrete surface beds, slabs, etc.	m2	364	
<u>WATERPROOFING</u>				
6	S120 Woven, geofabric	m2	970	
<u>AGRI PIPE</u>				
7	100mm diameter agri pipe with 19mm stone. Surround, wrapped in U14 Bidim & laid to fall to SW system	m	404	
Carried to Collection				
EXTERNAL WORKS				
Retaining Walls				
				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Retaining Walls		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	155	
	156	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Retaining Walls		

Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<u>SEWER DRAINAGE</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Preambles</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>MANHOLES</u>			
	<u>Manholes, Including Excavation Concrete, Precast Concrete, Brickwork, Benching, Plaster, Etc. (Gratings Elsewhere Measured)</u>			
1	1000mm Diameter precast rings not exceeding 1m deep internally	No	1	
2	1000mm Diameter precast rings exceeding 1m and not exceeding 2m deep internally	No	3	
3	1000mm Diameter precast rings exceeding 2m and not exceeding 3m deep internally	No	10	
	<u>Class 34 HduPVC Pipes Laid In Ground In And Including Excavation For Trenches, Risk Of Collapse, Bedding, Backfilling, Etc</u>			
4	160mm Pipe and excavation not exceeding 1000mm deep.	m	93	
5	160mm Pipe and excavation exceeding 1000mm and not exceeding 2000mm deep.	m	46	
6	160mm Pipe and excavation exceeding 2000mm and not exceeding 3000mm deep.	m	170	
	Carried Forward to Summary of Section No. 3			R
	EXTERNAL WORKS			
	Sewer Drainage			

Item No			Quantity	Rate	Amount
	<u>BILL No. 11</u>				
	<u>WATER SUPPLY (PROVISIONAL)</u>				
	<u>PREAMBLES</u>				
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Preambles</u>				
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.				
	<u>WATER SUPPLY PIPES</u>				
	<u>HDPE Class 6 water pipes</u>				
1	75mm Pipes laid in and including trenches not exceeding 1000mm deep	m	842		
	<u>Extra over HDPE pipes for "Plasson" or other approved fittings</u>				
2	75mm End cap	No	6		
3	75mm Bend	No	8		
4	75mm Tee	No	7		
5	75mm Valve	No	2		
	<u>Construct 10 bar rated Isolation Valve chamber as detailed, joint, including cutting pipe where necessary, complete with precast/in-situ reinforced concrete chamber and cover, flange adaptors, pipes, flanged resilient seal/wedge gate valve, Class 16, to SABS 664, non-rising spindle, clockwise closure, with cap top</u>				
6	On 75mm HDPE pipe	No	14		
	Carried to Collection				R
	EXTERNAL WORKS				
	Water Supply				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Water Supply		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	159	
	160	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Water Supply		

Item No		Quantity	Rate	Amount
	<u>BILL No. 12</u>			
	<u>SEPTIC TANK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371 with its latest ammendements"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
	<u>Proprietary Products In Descriptions</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
	<u>EARTHWORKS (PROVISIONAL)</u>			
1	Excavate in earth to open face over site to reduce levels.	m3	201	
2	Extra over excavations in earth to trenches for excavation in soft rock.	m3	26	
3	Ditto, but in hard rock.	m3	104	
4	Excavate in earth for working space (at Contractor's discretion) not exceeding 1300mm deep to side of the building of brick wall, fill and consolidate spoil on completion. (Distance from face of wall to side of excavation is 170mm).	m2	54	
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	201	
6	Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.	m2	78	
	Carried to Collection			
	EXTERNAL WORKS			
	Septic Tank			
			R	

1	Backfilling with excavated material, deposited in layers not exceeding 150mm Thick, watered and consolidated to 93% modified AASHTO density to platforms	m3	11		
2	<u>Earth filling supplied G5 Material by the Contractor, compacted to 93% Mod AASHTO density</u>	m3	16		
3	Allow for keeping excavations free from water.		Item		
4	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	36		
5	Ant proofing treatment to surfaces of ground under floors, etc including forming, saturating with ant poisoning solution, filling and consolidating 75 x 75mm V-shaped grooves along face of walls.	m2	36		
<u>Testing</u>					
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	6		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>15Mpa/19mm Concrete In</u>					
7	Surface blinding under holes, etc.	m3	2		
<u>25Mpa/19mm Concrete In</u>					
8	Slabs	m3	22		
9	Concrete walls.	m3	19		
<u>Finishing Top Surfaces Of Concrete Smooth With A Wood Float</u>					
10	Surface beds, slabs, etc.	m2	72		
<u>FORMWORK</u>					
<u>Rough Formwork To</u>					
11	Sides and soffits of slabs.	m2	36		
Carried to Collection					
EXTERNAL WORKS					
Septic Tank					
				R	

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Septic Tank		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	162	
	163	
	164	
Carried Forward to Summary of Section No. 3		R
EXTERNAL WORKS		
Septic Tank		

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 13</u></p> <p><u>ACCESS ROAD (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification Of Materials And Methods To Be Used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products In Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Nature Of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away Of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p>			
	Carried to Collection			R
	EXTERNAL WORKS Access Road			

Density Testing On Filling

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved

When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally

Formwork

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator.

All concrete work shall comply to SABS 1200G and no crusher run from Goldfields may be used on this Project.

EARTHWORKS

Excavations, Filling, Etc

1	Excavate in earth to reduce levels under roads not exceeding 2000mm deep.	m3	1,013
2	Extra over bulk excavations in earth for excavation in soft rock.	m3	68
3	Ditto, but in hard rock.	m3	51
4	Extra over all excavations for carting away from the site all surplus excavated material.	m3	861
5	Allow for keeping excavations free from water.		Item

Carried to Collection

EXTERNAL WORKS
Access Road

R

1	G7 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 93% modified AASHTO density in 500mm thick sub-base course under roads.	m3	675		
2	C4 gravel material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 150mm thick sub-base course under roads.	m3	338		
3	Scarify, mix and consolidate top 150mm of subgrade to 90% modified AASHTO density.	m2	2,250		
	<u>BLOCK PAVING</u>				
	<u>Coloured Precast Cement Concrete (25MPa) Interlocking Paving Bricks Size 200 x 100 x 60mm Thick Laid On And Including 20mm Thick Sand Bed With Joints Filled With Sand</u>				
4	Paving to patterns as architects design and to falls and cross falls.	m2	2,250		
	<u>PRECAST CONCRETE</u>				
	<u>Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc</u>				
5	Fig. 8 kerb size 150 x 230mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 45mm thick x 230mm wide layer of 3.1 cement mortar with 100 x 100 x 200mm long triangular haunching behind kerb at all joints and jointed in 3.1 cement mortar.	m	680		
	<u>WATERPROOFING</u>				
	<u>Two Layers 250 Micron Waterproof Sheeting With Staggered Joints</u>				
6	On compacted earth under concrete and paving bricks.	m2	2,250		
	<u>ROAD MARKINGS</u>				
	Carried to Collection				
	EXTERNAL WORKS				
	Access Road				
				R	

Single Pack Solvent-Based Coatings For The Marking Of Road Surfaces To Comply With SANS 731. Colour: Matt White And Matt Golden Yellow

1	Parking lines 100mm wide on pavement.	m	255
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EXTERNAL WORKS
 Access Road

Carried to Collection

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
EXTERNAL WORKS		
Access Road		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	166	
	167	
	168	
	169	
Carried Forward to Summary of Section No. 3		
EXTERNAL WORKS		
Access Road		
		R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Bill No		Page No	Amount
	EXTERNAL WORKS		
	<u>SECTION SUMMARY - EXTERNAL WORKS</u>		
	Site Excavations (Provisional)	120	
	Fencing (Provisional)	123	
	Walkways, Roads, Parkings And Assembly Area	129	
	Water Tanks & Stands	134	
	Soccer Filed (Provisional)	138	
	Combicourt	145	
	Netball Court	151	
	Stormwater Drainage	154	
	Retaining Walls	157	
	Sewer Drainage	158	
	Water Supply	161	
	Septic Tank	165	
	Access Road	170	
	Carried to Final Summary		R
	EXTERNAL WORKS		

Item No		Quantity	Rate	Amount
	<u>SECTION 4 : ELECTRICAL INSTALLATIONS</u> <u>(CPAP Work Group No.160)</u>			
	<u>BILL No.1</u>			
	<u>LV RETICULATION</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<u>Supply the following Distribution Boards complete with all switchgear, accessories as specified on the schematic layouts, all fitted in the factory and tested, including delivery to site and off-loading in accordance with the single lines</u>			
1	Kiosk feed from eskom.	No	1	
2	LV Panel.	No	1	
3	Block G Main Distribution Board DB-G.	No	1	
4	Block C DB-C.	No	1	
5	Block D DB-D.	No	1	
6	Block E DB-E.	No	1	
7	Block F DB-F.	No	1	
8	Block J DB-J.	No	1	
9	Block K DB-K.	No	1	
10	Block I DB-I.	No	1	
11	Block H DB-H.	No	1	
12	Block A DB-GH.	No	1	
	Carried to Collection			R
	ELECTRICAL INSTALLATIONS Reticulation			

<u>CABLES AND CABLES TERMINATIONS</u>			
Supply, install and connect reticulation cables installed in cable ladder, tray, trenching or sleeves			
<u>Cable Schedule</u>			
1	16mm ² 4-core PVC/SWA/PVC Cable.	m	1,200
2	10 mm ² Bare Copper Earth Wire .	m	1,200
3	6 mm ² 4-core PVC/SWA/PVC Cable Terminations.	No	24
4	4 mm ² Bare Copper Earth Wire Terminations.	No	24
<u>Cable Schedule</u>			
5	16 mm ² 3-core PVC/SWA/PVC Cable.	m	20
6	10 mm ² 3-core PVC/SWA/PVC Cable Terminations.	No	2
<u>Cable Schedule</u>			
7	35mm ² 4-core PVC/SWA/PVC Cable.	m	200
8	25 mm ² Bare Copper Earth Wire.	m	200
9	35 mm ² 4-core PVC/SWA/PVC Cable Terminations.	No	6
10	25 mm ² Bare Copper Earth Wire Terminations.	No	6
<u>Cable Schedule</u>			
11	50mm ² 4-core PVC/SWA/PVC Cable.	m	250
12	35 mm ² Bare Copper Earth Wire.	m	250
13	50 mm ² 4-core PVC/SWA/PVC Cable Terminations.	No	4
14	35 mm ² Bare Copper Earth Wire Terminations.	No	4
<u>CABLE TRENCHING</u>			
<u>Excavate and backfill cable trench, 600mm deep and 500mm wide, including compacting</u>			
15	In hand-pickable soil.	m3	450
Carried to Collection			
ELECTRICAL INSTALLATIONS			
Reticulation			
			R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

1 Issue a Certificate of Compliance (CoC) in accordance with the SABS 0142-1 (2001) requirements per Distribution Board.

SUM

Carried to Collection

ELECTRICAL INSTALLATIONS
 Reticulation

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
ELECTRICAL INSTALLATIONS		
Reticulation		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	172	
	173	
	174	
	175	
Carried Forward to Summary of Section No. 4		
ELECTRICAL INSTALLATIONS		
Reticulation		
		R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.2</u>			
	<u>CONDUIT</u>			
	<u>Supply and install conduit complete with all accessories as specified</u>			
1	25mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted.	m	960	
2	20mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted	m	672	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
3	60mm round, 25mm deep for 20mm, 25mm and 32mm conduit mounted flush in wall or fixed to surface.	No	40	
	<u>Outlet boxes excluding covers</u>			
4	100mm x 50mm x 50mm conduit box - Flush mountend.	No	27	
5	100mm x 100mm x 50mm conduit box - Flush Mounted.	No	23	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trucking</u>			
6	2.5mm ² Wire (lights).	m	600	
7	2.5mm ² Wire (lights).	m	300	
8	4mm ² Wire (power).	m	400	
9	2.5mm ² B.C.E.W (power).	m	200	
	<u>LIGHT SWITCHES</u>			
	Carried to Collection			R
	ELECTRICAL INSTALLATIONS Block G & Admin block			

<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories</u>				
1	230V, 16A, single lever, one way, light switch 1400mm AFFL elsewhere and 1000mm in disabled toilet.complete with cover plate. Flush	No	12	
2	220-240V, 50Hz daylight switch, ON/OFF must be adjustable from 5 to 100 lux, weather proof and must have a built in delay of 40 seconds.	No	1	
<u>LUMINARIES</u>				
<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories</u>				
3	TYPE C - 20W LED, round bulkhead luminaire, ceiling mounted complete with unbreakable polycarbonate diffuser, die cast aluminium base, lamps, 230V power supply, driver, and mounting accessories.	No	12	
4	TYPE F9 - 2X18W , 1200mm, surface open channel T5 LED fluorescent luminaire complete with lamps, and mounting accessories.	No	28	
<u>SWITCHED SOCKET OUTLETS</u>				
<u>Supply, install and connect Switched socket outlets mounted flush in wall or in powerskirting as specified, complete with cover plates and all accessories</u>				
5	230V, 16A, combined normal double switched socket outlet white in colour, wall mounted at 300mm AFFL (unless otherwise stated, suitable to accommodate SANS 164-1 and SANS 164-2 socket outlet as per the GDID guidelines mounted on power skirting.	No	15	
<u>ISOLATORS</u>				
<u>Supply and install Isolators mounted as specified complete with cover plate and all accessories.</u>				
6	20A Double pole isolator in weather proof box.	No	8	
<u>Section 2: Electronic Services Outlets</u>				
<u>Data and Telephone Installation</u>				
Carried to Collection				
ELECTRICAL INSTALLATIONS Block G & Admin block				R

<u>Conduit</u>				
<u>Supply and install conduit complete with all accessories including couplings, bending and fixings as specified</u>				
1	25mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted.	m	120	
<u>DRAW-WIRE</u>				
<u>Supply and draw into conduit 1mm steel draw-wire</u>				
2	Draw-wire.	m	120	
<u>OUTLETS</u>				
<u>Supply, install blank cover plates and conduit boxes mounted as indicated</u>				
3	Double Data point RJ11 at 2200mm AFFL.	No	8	
<u>LIGHTNING AND EARTHING PROTECTION</u>				
4	Termination of 50mm ² aluminium conductor to 50mm ² aluminium conductor installed on roofperimeter including lugs rivets and silver solder, etc.	No	6	
<u>Air terminal conductors</u>				
5	Supply and fixing on surface inan approved manner of 50mm bluminium conductor including all fixing accessories, such a§nsulating sleeved and stand-off brackets, but not includingterminations. Rates quoted.	m	18	
<u>Down conductors</u>				
6	Supply and installation 70 mm Anti- theft composite stranded down conductor equivalent to 10mm BECW with all fixing accessories but not including terminations. Rates quoted shall allow for wastage, of-cuts and joints. (Conduit elsewhere measured).	m	36	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block G & Admin block				R

<u>Terminations of down conductors to earth conductors</u>				
1	Termination of 50mm ² green PVC copper conductor to earthing conductor including lugs and silver solder, etc.	No	6	
<u>EARTHING CONDUCTORS</u>				
<u>Termination of earth conductor to earth electrodes including making of the ends, lugs, clamps, etc</u>				
2	50mm ² Termination to Earth electrodes.	m	36	
3	Supply and installation of 1,8m long earth electrodes.	No	6	
4	Bonding of metal drainage/waterdown pipes.	No	6	
5	Supply and testing apparatus and testing in accordance with SABS code		Item	
6	Testing of joint continuity.	No	6	
7	Testing of lighting protection system.	No	6	
8	Testing of earthing points.	No	3	
9	Issue certificate of compliance.		Item	
10	25mm diameter galvanised conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- surface mounted.	m	36	
11	105 X105 Steel Box - Junction Box/Test Point complete with all accessories and cover.	m	2	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block G & Admin block				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

ELECTRICAL INSTALLATIONS

Block G & Admin block

COLLECTION

Total Brought Forward from Page No.

Page
No

177

178

179

180

Amount

Carried Forward to Summary of Section No. 4

ELECTRICAL INSTALLATIONS

Block G & Admin block

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.3</u>			
	<u>BLOCK C, D, F, K & H</u>			
	<u>Section 1: Power - General Purpose Outlets and Lighting</u>			
	<u>CONDUIT</u>			
	<u>Supply and install conduit complete with all accessories as specified</u>			
1	25mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted.	m	3,960	
2	20mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted	m	5,940	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
3	60mm round, 25mm deep for 20mm, 25mm and 32mm conduit mounted flush in wall or fixed to surface.	No	275	
	<u>Outlet boxes excluding covers</u>			
4	100mm x 50mm x 50mm conduit box - Flush mountend.	No	48	
5	100mm x 100mm x 50mm conduit box - Flush Mounted.	No	102	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trucking</u>			
6	2.5mm ² Wire (lights).	m	6,600	
7	2.5mm ² Wire (lights).	m	3,300	
8	4mm ² Wire (power).	m	3,672	
	Carried to Collection			R
	ELECTRICAL INSTALLATIONS Block C, D, F, K & H			

1	2.5mm ² B.C.E.W (power).	m	1,836	
	<u>LIGHT SWITCHES</u>			
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories</u>			
2	230V, 16A, single lever, one way, light switch 1400mm AFFL elsewhere and 1000mm in disabled toilet.complete with cover plate. Flush	No	40	
3	220-240V, 50Hz daylight switch, ON/OFF must be adjustable from 5 to 100 lux, weather proof and must have a built in delay of 40 seconds.	No	8	
	<u>LUMINARIES</u>			
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories</u>			
4	TYPE C - 20W LED, round bulkhead luminaire, ceiling mounted complete with unbreakable polycarbonate diffuser, die cast aluminium base, lamps, 230V power supply, driver, and mounting accessories.	No	75	
5	TYPE F9 - 2X18W , 1200mm, surface open channel T5 LED fluorescent luminaire complete with lamps, and mounting accessories.	No	200	
	<u>SWITCHED SOCKET OUTLETS</u>			
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or in powerskirting as specified, complete with cover plates and all accessories</u>			
6	230V, 16A, combined normal double switched socket outlet white in colour, wall mounted at 300mm AFFL (unless otherwise stated, suitable to accommodate SANS 164-1 and SANS 164-2 socket outlet as per the GDID guidelines mounted on power skirting.	No	100	
	<u>ISOLATORS</u>			
	<u>Supply and install Isolators mounted as specified complete with cover plate and all accessories.</u>			
7	20A Double pole isolator in weather proof box.	No	2	
	Carried to Collection			
	ELECTRICAL INSTALLATIONS Block C, D, F, K & H			R

<u>Section 2: Electronic Services Outlets</u>				
<u>LIGHTNING AND EARTHING PROTECTION</u>				
1	Termination of 50mm ² aluminium conductor to 50mm ² aluminium conductor installed on roofperimeter including lugs rivets and silver solder, etc.	No	25	
<u>Air terminal conductors</u>				
2	Supply and fixing on surface in an approved manner of 50mm bluminium conductor including all fixing accessories, such a§nsulating sleeved and stand-off brackets, but not including terminations. Rates quoted.	m	75	
<u>Down conductors</u>				
3	Supply and installation 70 mm Anti- theft composite stranded down conductor equivalent to 10mm BECW with all fixing accessories but not including terminations. Rates quoted shall allow for wastage, of-cuts and joints. (Conduit elsewhere measured).	m	100	
<u>Terminations of down conductors to earth conductors</u>				
4	Termination of 50mm ² green PVC copper conductor to earthing conductor including lugs and silver solder, etc.	No	50	
<u>EARTHING CONDUCTORS</u>				
<u>Termination of earth conductor to earth electrodes including making of the ends, lugs, clamps, etc</u>				
5	50mm ² Termination to Earth electrodes.	m	26	
6	Supply and installation of 1,8m long earth electrodes.	No	26	
7	Bonding of metal drainage/waterdown pipes.	No	25	
8	Supply and testing apparatus and testing in accordance with SABS code	No	10	
9	Testing of joint continuity.	No	10	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block C, D, F, K & H				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

1	Testing of lighting protection system.	No	10	
2	Testing of earthing points.	No	10	
3	Issue certificate of compliance.	No	10	
4	25mm diameter galvanised conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- surface mounted.	m	78	
5	105 X105 Steel Box - Junction Box/Test Point complete with all accessories and cover.	m	20	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block C, D, F, K & H				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

ELECTRICAL INSTALLATIONS

Block C, D, F, K & H

COLLECTION

Total Brought Forward from Page No.

Page
No

182

183

184

185

Amount

Carried Forward to Summary of Section No. 4

ELECTRICAL INSTALLATIONS

Block C, D, F, K & H

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.4</u>			
	<u>BLOCK I, J & E</u>			
	<u>Section 1: Power - General Purpose Outlets and Lighting</u>			
	<u>CONDUIT</u>			
	<u>Supply and install conduit complete with all accessories as specified</u>			
1	25mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted.	m	1,890	
2	20mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface mounted	m	3,402	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
3	60mm round, 25mm deep for 20mm, 25mm and 32mm conduit mounted flush in wall or fixed to surface.	No	108	
	<u>Outlet boxes excluding covers</u>			
4	100mm x 50mm x 50mm conduit box - Flush mountend.	No	12	
5	100mm x 100mm x 50mm conduit box - Flush Mounted.	No	114	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trucking</u>			
6	2.5mm ² Wire (lights).	m	3,780	
7	2.5mm ² Wire (lights).	m	1,890	
8	4mm ² Wire (power).	m	1,368	
	Carried to Collection			R
	ELECTRICAL INSTALLATIONS Block I, J & E			

1	2.5mm ² B.C.E.W (power).	m	684		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories</u>				
2	230V, 16A, single lever, one way, light switch 1400mm AFFL elsewhere and 1000mm in disabled toilet.complete with cover plate. Flush	No	12		
3	220-240V, 50Hz daylight switch, ON/OFF must be adjustable from 5 to 100 lux, weather proof and must have a built in delay of 40 seconds.	No	3		
	<u>LUMINARIES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories</u>				
4	TYPE C - 20W LED, round bulkhead luminaire, ceiling mounted complete with unbreakable polycarbonate diffuser, die cast aluminium base, lamps, 230V power supply, driver, and mounting accessories.	No	35		
5	TYPE F9 - 2X18W , 1200mm, surface open channel T5 LED fluorescent luminaire complete with lamps, and mounting accessories.	No	70		
	<u>SWITCHED SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or in powerskirting as specified, complete with cover plates and all accessories</u>				
6	230V, 16A, combined normal double switched socket outlet white in colour, wall mounted at 300mm AFFL (unless otherwise stated, suitable to accommodate SANS 164-1 and SANS 164-2 socket outlet as per the GDID guidelines mounted on power skirting.	No	40		
7	230V, 16A, combined european socket outlet, red / white in color, mounted on power skirting.	No	68		
	<u>ISOLATORS</u>				
	Carried to Collection				
	ELECTRICAL INSTALLATIONS Block I, J & E				R

<u>Supply and install Isolators mounted as specified complete with cover plate and all accessories.</u>				
1	20A Double pole isolator in weather proof box.	No	6	
<u>Power Skirting</u>				
2	3 compartment, 2 cover, galvanised steel, epoxy coated, power skirting complete with all accessories.	m	204	
3	90 degree bands.	No	1	
4	end caps.	No	12	
<u>Section 2: Electronic Services Outlets</u>				
<u>Data and Telephone Installation</u>				
<u>Conduit</u>				
<u>Supply and install conduit complete with all accessories including couplings, bending and fixings as specified</u>				
5	25mm diameter PVC conduit complete installed with all bends, fixings, saddles, adaptors, chased into walls, ect. as specified- surface mounted.	m	720	
<u>DRAW-WIRE</u>				
<u>Supply and draw into conduit 1mm steel draw-wire</u>				
6	Draw-wire.	m	144	
<u>OUTLETS</u>				
<u>Supply, install blank cover plates and conduit boxes mounted as indicated</u>				
7	Double Data point RJ11 at 2200mm AFFL.	No	48	
<u>LIGHTNING AND EARTHING PROTECTION</u>				
8	Termination of 50mm ² aluminium conductor to 50mm ² aluminium conductor installed on roof perimeter including lugs rivets and silver solder, etc.	No	36	
Carried to Collection				
ELECTRICAL INSTALLATIONS				
Block I, J & E				R

<u>Air terminal conductors</u>				
1	Supply and fixing on surface in an approved manner of 50mm aluminium conductor including all fixing accessories, such as insulating sleeved and stand-off brackets, but not including terminations. Rates quoted.	m	108	
<u>Down conductors</u>				
2	Supply and installation 70 mm Anti- theft composite stranded down conductor equivalent to 10mm BECW with all fixing accessories but not including terminations. Rates quoted shall allow for wastage, of-cuts and joints. (Conduit elsewhere measured).	m	144	
<u>Terminations of down conductors to earth conductors</u>				
3	Termination of 50mm ² green PVC copper conductor to earthing conductor including lugs and silver solder, etc.	No	18	
<u>EARTHING CONDUCTORS</u>				
<u>Termination of earth conductor to earth electrodes including making of the ends, lugs, clamps, etc</u>				
4	50mm ² Termination to Earth electrodes.	m	108	
5	Supply and installation of 1,8m long earth electrodes.	No	18	
6	Bonding of metal drainage/waterdown pipes.	No	18	
7	Supply and testing apparatus and testing in accordance with SABS code	No	6	
8	Testing of joint continuity.	No	6	
9	Testing of lightning protection system.	No	6	
10	Testing of earthing points.	No	6	
11	Issue certificate of compliance.	No	6	
12	25mm diameter galvanised conduit complete installed with all bends, fixings saddles, adaptors, chased into walls, ect. as specified- surface mounted.	m	108	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block I, J & E				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1 105 X105 Steel Box - Junction Box/Test Point complete
with all accessories and cover.

m

6

Carried to Collection

ELECTRICAL INSTALLATIONS
Block I, J & E

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

ELECTRICAL INSTALLATIONS

Block I, J & E

COLLECTION

Total Brought Forward from Page No.

Page
No

Amount

187

188

189

190

191

Carried Forward to Summary of Section No. 4

ELECTRICAL INSTALLATIONS

Block I, J & E

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.5</u>			
	<u>BLOCK A, B PUMP ROOM, AND LV ROOM</u>			
	<u>Section 1: Power - General Purpose Outlets and Lighting</u>			
	<u>CONDUIT</u>			
	<u>Supply and install conduit complete with all accessories as specified</u>			
1	25mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- surface mounted.	m	80	
2	20mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- surface mounted	m	80	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
3	60mm round, 25mm deep for 20mm, 25mm and 32mm conduit mounted flush in wall or fixed to surface.	No	8	
	<u>Outlet boxes excluding covers</u>			
4	100mm x 50mm x 50mm conduit box - Flush mountend.	No	12	
5	100mm x 100mm x 50mm conduit box - Flush Mounted.	No	16	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trucking</u>			
6	2.5mm ² Wire (lights).	m	864	
7	2.5mm ² Wire (lights).	m	432	
8	4mm ² Wire (power).	m	216	
	Carried to Collection			R
	ELECTRICAL INSTALLATIONS Block A & B Pump & LV room			

1	2.5mm ² B.C.E.W (power).	m	108	
	<u>LIGHT SWITCHES</u>			
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories</u>			
2	230V, 16A, single lever, one way, light switch 1400mm AFFL elsewhere and 1000mm in disabled toilet.complete with cover plate. Flush	No	12	
3	220-240V, 50Hz daylight switch, ON/OFF must be adjustable from 5 to 100 lux, weather proof and must have a built in delay of 40 seconds.	No	4	
	<u>LUMINARIES</u>			
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories</u>			
4	TYPE C - 20W LED, round bulkhead luminaire, ceiling mounted complete with unbreakable polycarbonate diffuser, die cast aluminium base, lamps, 230V power supply, driver, and mounting accessories.	No	24	
5	TYPE F9 - 2X18W , 1200mm, surface open channel T5 LED fluorescent luminaire complete with lamps, and mounting accessories.	No	18	
	<u>SWITCHED SOCKET OUTLETS</u>			
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or in powerskirting as specified, complete with cover plates and all accessories</u>			
6	230V, 16A, combined normal double switched socket outlet white in colour, wall mounted at 300mm AFFL (unless otherwise stated, suitable to accommodate SANS 164-1 and SANS 164-2 socket outlet as per the GDID guidelines mounted on power skirting.	No	8	
	<u>ISOLATORS</u>			
	<u>Supply and install Isolators mounted as specified complete with cover plate and all accessories.</u>			
7	20A Double pole isolator in weather proof box.	No	1	
	Carried to Collection			
	ELECTRICAL INSTALLATIONS Block A & B Pump & LV room			R

<u>Section 2: Electronic Services Outlets</u>				
<u>Data and Telephone Installation</u>				
<u>LIGHTNING AND EARTHING PROTECTION</u>				
1	Termination of 50mm ² aluminium conductor to 50mm ² aluminium conductor installed on roof perimeter including lugs rivets and silver solder, etc.	No	12	
<u>Air terminal conductors</u>				
2	Supply and fixing on surface in an approved manner of 50mm aluminium conductor including all fixing accessories, such as insulating sleeved and stand-off brackets, but not including terminations. Rates quoted.	m	12	
<u>Down conductors</u>				
3	Supply and installation 70 mm Anti- theft composite stranded down conductor equivalent to 10mm BECW with all fixing accessories but not including terminations. Rates quoted shall allow for wastage, of-cuts and joints. (Conduit elsewhere measured).	m	12	
<u>Terminations of down conductors to earth conductors</u>				
4	Termination of 50mm ² green PVC copper conductor to earthing conductor including lugs and silver solder, etc.	No	12	
<u>EARTHING CONDUCTORS</u>				
<u>Termination of earth conductor to earth electrodes including making of the ends, lugs, clamps, etc</u>				
5	50mm ² Termination to Earth electrodes.	m	36	
6	Supply and installation of 1,8m long earth electrodes.	No	12	
7	Bonding of metal drainage/water down pipes.	No	12	
8	Supply and testing apparatus and testing in accordance with SABS code	No	4	
Carried to Collection				
ELECTRICAL INSTALLATIONS Block A & B Pump & LV room				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

ELECTRICAL INSTALLATIONS

Block A & B Pump & LV room

COLLECTION

Total Brought Forward from Page No.

Page
No

193

194

195

196

Amount

Carried Forward to Summary of Section No. 4

ELECTRICAL INSTALLATIONS

Block A & B Pump & LV room

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>SECTION 4 : ELECTRICAL INSTALLATIONS</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>BELL SYSTEM</u>			
1	Provide the amount of R45,000.00 for the Bell System.	Item		45,000.00
2	Profit		%	
3	Allow for general attendance		%	
	<u>SERVER AND DATA CABLING</u>			
4	Provide the amount of R500,000.00 for the Server and Data Cabling.	Item		500,000.00
5	Profit		%	
6	Allow for general attendance		%	
	<u>SOLAR POWER</u>			
7	Provide the amount of R900,000.00 for Solar Power.	Item		900,000.00
8	Profit		%	
9	Allow for general attendance		%	
	<u>SECURITY INSTALLATION</u>			
10	Provide the amount of R150,000.00 for Security Installation.	Item		150,000.00
11	Profit		%	
12	Allow for general attendance		%	
	<u>SMART BOARDS</u>			
13	Provide the amount of R910,000.00 for Smart Boards.	Item		910,000.00
	Carried to Collection		R	
	ELECTRICAL INSTALLATIONS Provisional Sums			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
ELECTRICAL INSTALLATIONS		
Provisional Sums		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	198	
	199	
Carried Forward to Summary of Section No. 4		R
ELECTRICAL INSTALLATIONS		
Provisional Sums		

Bill No	ELECTRICAL INSTALLATIONS	Page No	Amount
	<u>SECTION SUMMARY - ELECTRICAL INSTALLATIONS</u>		
	Reticulation	176	
	Block G & Admin block	181	
	Block C, D, F, K & H	186	
	Block I, J & E	192	
	Block A & B Pump & LV room	197	
	Provisional Sums	200	
	Carried to Final Summary		
	ELECTRICAL INSTALLATIONS		R

Item No		Quantity	Rate	Amount
	<u>BILL No.1</u>			
	<u>WET SERVICES (CPAP Work Group No.170)</u>			
	<u>INTERNAL DOMESTIC COLD AND HOT WATER PIPING</u>			
	<u>Class 1 Copper Pipe: (Surface Mounted)</u>			
	Class 1 copper water piping in accordance with SANS 460 installed complete with short lengths, cutting, plain couplings, capillary solder and jointing strictly in accordance with the Manufacturer's instructions, support bracksts etc.			
1	Dia 35.	m	60	
2	Dia 28.	m	60	
3	Dia 22.	m	90	
4	Dia 15.	m	180	
	<u>Class 1 Copper Pipe: (Chased in Walls)</u>			
	Class 1 copper water piping in accordance with SANS 460 installed complete with short lengths, cutting, plain couplings, capillary solder and jointing strictly in accordance with the Manufacturer's instructions			
5	Dia 28.	m	30	
6	Dia 22.	m	45	
7	Dia 15.	m	90	
	<u>Bends</u>			
	Extra over copper piping for capillary fittings in accordance with SANS 1067 - 2 complete with hangers, brackets, soldering , etc			
8	Dia 35.	m	60	
	Carried to Collection			R
	WET SERVICES			
	Internal Domestic Hot and Cold Water			

SOLAR GEYSERS

1	Vertical 100Litres electrical pressure geyser c/w associated fittings.	No	2
2	15Litres undersink electrical pressure geyser c/w associated fittings.	No	1

Carried to Collection

WET SERVICES
 Internal Domestic Hot and Cold Water

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
WET SERVICES		
Internal Domestic Hot and Cold Water		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	202	
	203	
	204	
	205	
Carried Forward to Summary of Section No. 5		R
WET SERVICES		
Internal Domestic Hot and Cold Water		

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.2</u>			
	<u>EXTERNAL WATER AND FIRE RETICULATION</u>			
	<u>uPVC PIPES CLASS 16</u>			
1	25 mm Pipes in trenching 800mm below ground.	m	200	
2	25 mm Pipes cast in slab.	m	150	
3	35 mm Pipes in trenching 800mm below ground.	m	350	
4	35 mm Pipes cast in slab.	m	250	
5	50 mm Pipes in trenching 800mm below ground.	m	520	
6	50 mm Pipes cast in slab.	m	250	
7	75 mm Pipes in trenching 800mm below ground.	m	1,100	
8	75 mm Pipes cast in slab.	m	400	
	<u>uPVC PIPES CLASS 16 90 DEGREE BENDS</u>			
9	25 mm Pipes in trenching 800mm below ground.	m	30	
10	25 mm Pipes cast in slab.	m	20	
11	35 mm Pipes in trenching 800mm below ground.	m	35	
12	35 mm Pipes cast in slab.	m	25	
13	50 mm Pipes in trenching 800mm below ground.	m	50	
14	50 mm Pipes cast in slab.	m	25	
15	75 mm Pipes in trenching 800mm below ground.	m	100	
16	75 mm Pipes cast in slab.	m	40	
	<u>uPVC PIPES CLASS 16 TEE</u>			
17	25 mm Pipes in trenching 800mm below ground.	m	12	
	Carried to Collection			R
	WET SERVICES			
	External Water and Fire Reticulation			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	25 mm Pipes cast in slab.	m	12	
2	35 mm Pipes in trenching 800mm below ground.	m	15	
3	35 mm Pipes cast in slab.	m	10	
4	50 mm Pipes in trenching 800mm below ground.	m	20	
5	50 mm Pipes cast in slab.	m	10	
6	75 mm Pipes in trenching 800mm below ground.	m	12	
7	75 mm Pipes cast in slab.	m	10	
Carried to Collection				
WET SERVICES				
External Water and Fire Reticulation				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
WET SERVICES		
External Water and Fire Reticulation		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	207	
	208	
Carried Forward to Summary of Section No. 5		
WET SERVICES		R
External Water and Fire Reticulation		

Item No		Quantity	Rate	Amount
	<u>BILL No.3</u>			
	<u>INTERNAL FIRE HYDRANTS AND HOSE REELS</u>			
	<u>TWINE BOOSTER CONNECTION</u>			
	<u>The Contractor shall make provision for twine booster connection in accordance to SANS 10400 and Local Fire Department Regulations</u>			
1	Twine booster connection.	No	1	
	<u>INTERNAL 30m FIRE HOSE REELS</u>			
	<u>The Contractor shall make provision for 30m Fire Hose Reels including 3m connecting pipework in accordance to SANS 10400 and Local Fire Department Regulations</u>			
2	Internal 30m fire hose reels.	No	15	
	<u>INTERNAL 4.5kg DCP FIRE EXTINGUISHERS</u>			
	<u>The Contractor shall make provision for 4.5kg DCP Fire Extinguishers including backing board in accordance to SANS 10400 and Local Fire Department Regulations</u>			
3	Internal 4.5kg DCP Fire extinguishers.	No	20	
	<u>INTERNAL 5kg CO2 FIRE EXTINGUISHERS</u>			
	<u>The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage (Jalite or Similar) in accordance to SANS 10400 and Local Fire Department Regulations</u>			
4	Internal 5kg CO2 Fire Extinguishers.	No	20	
	<u>INTERNAL AND EXTERNAL FIRE AND ESCAPE SIGNAGE</u>			
	Carried to Collection			
	WET SERVICES			
	Fire Hose Reels and Hydrants			
			R	

The Contractor shall make provision for 150mm high pictogram combination Framed Photoluminescent Fire and Escape Signage (Jalite or Similar) in accordance to SANS 10400 and Local Fire Department Regulations.

1	Internal and external fire and escape signage.	No	40	
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FIRE PIPING AND ASSOCIATED FITTINGS

2	Fire piping and associated fittings.	m	120	
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OPERATING AND MAINTENANCE MANUALS

3	The Contractor shall make provision for 4 x copies of O & M Manuals in accordance with the detail in the Standard specification.	No	4	
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TRAINING OF CLIENTS STAFF

4	The Contractor shall make provision for 1 full day's training of the Clients Staff, on the operation of the installation.			Item
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AS FITTED LAYOUT DRAWINGS

5	The Contractor shall make provision for a detailed set of As Fitted Layout drawings of the entire installation, as the project progresses.			Item
---	--	--	--	------

FLUSHING AND TESTING

6	The Contractor shall make provision to Flush and Test the installation during construction - See Standard specification.			Item
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MAINTENANCE AND GUARANTEE

7	The Contractor shall make provision for 1 x Full years Maintenance and Guarantee of the entire installation. 11 x Standard Maintenance visits and 1 x Major service is required throughout the 12 months.			Item
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COMMISSIONING AND HANDOVER

8	Commission and handover.			Item
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Carried to Collection

WET SERVICES
Fire Hose Reels and Hydrants

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
WET SERVICES		
Fire Hose Reels and Hydrants		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	210	
	211	
Carried Forward to Summary of Section No. 5		R
WET SERVICES		
Fire Hose Reels and Hydrants		

Item No			Quantity	Rate	Amount
	<u>BILL No.4</u>				
	<u>WATER STORAGE TANK, WATER AND FIRE BOOSTER PUMPS</u>				
	<u>HOT WATER CALORIFIERS, HEATPUMPS, WATER STORAGE TANK, WATER AND FIRE BOOSTER PUMPS COMPLIANCE</u>				
	Quality & Scope of Work				
1	Compliance with Regulations and Standards.			SUM	
2	Health and Safety compliance.			SUM	
3	Protection against corrosion.			SUM	
4	Performance security.			SUM	
5	Programming of work.			SUM	
6	12 Months Guarantee and Maintance.			SUM	
7	Transport and delivery.			SUM	
8	Testing, balancing and commissioning.			SUM	
9	O & M manuals including as built drawings in hard copy and on CD x 3 sets.	Sets	1.0		
	<u>MAIN WATER STORAGE TANK AND BOOSTER PUMPS</u>				
	<u>WATER BOOSTER PUMPS</u>				
10	Installation and erection of 3-off vertical inline multistage booster pumps or approved equivalent each pump capable of delivering 5 litres per second of clean water @ 5.5bars each c/w VSD drives. Pumps to be installed c/w equipment listed below.	No	1		
11	Ø100mm Strainers.	No	3		
12	Ø100mm Non-return valves.	No	3		
	Carried to Collection			R	
	WET SERVICES				
	Water Storage and Fire & Water Booster Pumps				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Ø100mm Isolating butterfly valves.	No	6	
2	Pressure gauges.	No	2	
3	EP8 pressure switch c/w isolating valves.	No	1	
4	300 litres minimum expansion tank.	No	1	
5	Dry run float switch.	No	1	
6	IP54 Control panel c/w alarm.	No	1	
7	Galvanized inlet manifold.	No	1	
8	Galvanized outlet manifold.	No	1	
9	80 mm Bi-level control valve to be fitted to tank inlet.	No	2	
10	Control cabling linking pumps with tank.	m	50	
11	Electrical Wiring to control panel.	m	50	
12	Controls.		Item	
13	O & M Manuals.	No	3	
14	Supports, anti-vibration mountings and other fixing accessories.		Item	
15	All the above mounted on a base, pre-piped, pre-wired and tested.		Item	
<u>FIRE BOOSTER PUMP</u>				
16	Supply, delivery and erection of a Electrical Fire Booster pump for 1290 l/minute @ 750kPA. Pumps to be supplied c/w.	No	1	
17	100mm strainers.	No	2	
18	100mm non-return valves.	No	2	
19	100mm isolating butterfly valves.	No	4	
20	100mm flanged flexibles.	No	4	
21	Triple start arrangement, c/w diaphragm valves.	No	1	
Carried to Collection				
WET SERVICES				R
Water Storage and Fire & Water Booster Pumps				

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	IP54 control panel, c/w alarm.	No	1	
2	Pressure gauges.	No	2	
3	Dry run float switch.	No	1	
4	300ℓ expansion tank, c/w isolating and drain valves.	No	1	
5	Galvanised inlet and outlet manifolds.	No	1	
6	Electrical Wiring to control panel(Contractor).	No	1	
7	Controls.	No	1	
8	Supports, anti-vibration mountings and other fixing accessories.	No	1	
9	O & M Manuals.	No	3	
10	Miscellaneous other items.	No	1	
11	All the above mounted on a base, pre-piped, pre-wired and tested.	No	1	
	<u>JOCKEY PUMP</u>			
12	Supply, delivery and erection of a JOCKEY pump for 1.1litres/sec @ 750kPA. Pumps to be supplied c/w.	No	1	
13	32mm strainer and isolating ball valve.	No	1	
14	32mm non-return and isolating ball valves.	No	1	
15	32mm flexibles.	No	2	
16	Electrical Wiring to control panel(Contractor).	No	1	
	<u>Galvanised Steel Pipework</u>			
17	50mm Ø piping c/w elbow, bends, tees and fitting.	m	30	
18	65mm Ø piping c/w elbow, bends, tees and fitting.	m	30	
19	80mm Ø piping c/w elbow, bends, tees and fitting.	m	120	
20	100mm Ø piping c/w elbow, bends, tees and fitting.	m	120	
	Carried to Collection			
	WET SERVICES			
	Water Storage and Fire & Water Booster Pumps			
				R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

VALVES

1	65 mm Cast Iron Butterfly valves.	No	6
2	80 mm Cast Iron Butterfly valves.	No	8
3	100 mm Cast Iron Butterfly valves.	No	8
4	100 pressure red.	No	2

Carried to Collection

WET SERVICES
 Water Storage and Fire & Water Booster Pumps

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
 ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
 ADDENDUM NO.1

	Page No	Amount
WET SERVICES		
Water Storage and Fire & Water Booster Pumps		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	213	
	214	
	215	
	216	
Carried Forward to Summary of Section No. 5		R
WET SERVICES		
Water Storage and Fire & Water Booster Pumps		

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
	<u>BILL No.1</u>			
	<u>HVAC (CPAP Work Group No.170)</u>			
	<u>AIR CONDITIONING : SPLITS UNITS</u>			
	<u>Air Conditioning Units</u>			
1	Supply and Install 12000 BTU wall mounted split unit completely install with all copper piping, all accessories and drainage pipes. Mitsubishi or equivalent.	No	2	
2	Supply and Install 18000 BTU wall mounted split unit completely install with all copper piping, all accessories and drainage pipes. Mitsubishi or equivalent.	No	1	
	<u>CEILING FANS</u>			
3	5 Speed ceiling fan.	No	10	
	Carried to Final Summary			R
	HVAC			
	AIRCONDITIONING : HVAC			

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 1</u>				
	<u>PROVISIONAL SUMS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>General</u>				
	<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p> <p>Prime cost amounts and provisional sums exclude value added tax.</p> <p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p> <p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>				
	<u>Profit</u>				
	Where profit stated, the contractor may allow for profit if required				
	<u>Attendance upon nominated/selected subcontractors</u>				
	The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries				
	Carried to Collection				R
	PROVISIONAL SUMS				
	Provisional Sums				

Taking delivery

Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.

Works executed under a separate/direct contract

The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.

Co-ordination

The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works

Number of nominated/selected subcontractors

The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, all of which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained

The Following Nominated Sub-Contract Amounts Are For Work To Be Carried Out By Nominated Sub-Contractors:

COMMUNITY LIAISON OFFICER (CLO)

1 Provide the amount of R170,000.00 to be paid to the CLO for the duration of the contract (R8 500.00 per month).

2 Profit

3 Allow for general attendance

Item

170,000.00

%

%

Carried to Collection

R

PROVISIONAL SUMS
Provisional Sums

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

<u>FLAGPOLES AND PLAQUE</u>			
1	Provide the sum of R 100 000.00 for flagpoles and plaque.	Item	100,000.00
2	Profit	%	
3	Allow for general attendance	%	
<u>CHESS BOARD & PERGOLA</u>			
4	Provide the sum of R 200 000.00 for chess board & pergola.	Item	200,000.00
5	Profit	%	
6	Allow for general attendance	%	
<u>TERRACED SEATING</u>			
7	Provide the sum of R 500 000.00 for terraced seating.	Item	500,000.00
8	Profit	%	
9	Allow for general attendance	%	
<u>LANDSCAPING</u>			
10	Provide the sum of R 200 000.00 for landscaping.	Item	200,000.00
11	Profit	%	
12	Allow for general attendance	%	
<u>BOREHOLE INSTALLATION</u>			
13	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for borehole installation.	Item	200,000.00
14	Profit	%	
15	Allow for general attendance	%	
Carried to Collection			
PROVISIONAL SUMS		R	
Provisional Sums			

GEOHYDROLOGIST AND HYDROPEDELOGY STUDY

1	Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for geohydrologist and hydroopedology study.	Item	250,000.00
2	Profit		%
3	Allow for general attendance		%

CONTRACT PARTICIPATION GOALS (CPG)

SUPPLEMENTARY PREAMBLES

General

Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.

MINIMUM 30% SUB-CONTRACTING

4	Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in C3.1 Project Specifications . This is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's).The Employer will define the actual P&G items applicable to the SMME's after tender award	Item	1,500,000.00
5	Allowance for profit, all inclusive of associated costs to the contractor for implementation.		%
6	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%

Carried to Collection

PROVISIONAL SUMS
Provisional Sums

R

MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS

1	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables		Item	143,000.00
2	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
3	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	

MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS

4	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables		Item	143,000.00
5	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
6	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	

MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT

7	Provision is made for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in C3.1 Project Specifications. This allowance is for the cost for a suitably qualified and experienced training service provider appointed by the main contractor including monitoring and monthly reporting.		Item	350,000.00
8	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	

Carried to Collection

PROVISIONAL SUMS
Provisional Sums

R

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

1	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
	<u>MINIMUM TARGETED ENTERPRISE DEVELOPMENT</u>			
2	A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	Item		1,520,000.00
3	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
	<u>MINIMUM TARGETED SKILLS DEVELOPMENT GOALS</u>			
5	A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in C3.1 Project Specifications <ul style="list-style-type: none"> • stipends payable to the beneficiaries • appointment of training coordinator • appointment of mentor (where applicable) • appointment of training service providers • other additional costs as per table 3 of the Standard • monitoring and monthly reporting 	Item		327,000.00
6	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
7	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
	Carried to Collection			
	PROVISIONAL SUMS		R	
	Provisional Sums			

NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

1 A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in C3.1 Project Specifications

- Training of Youth Workers
- Travelling during on-site training
- Appointment of employment youth workers and monthly stipends
- Provision of Basic Tools for Youth Workers
- Provision of EPWP Designed Overalls and hard Hats to Youth Workers
- Appointment of Youth Training Coordinators
- Liaison with Service Provider
- Logistics for Exit Workshops

Item

870,000.00

2 Allowance for monthly reporting based on the implementation of the EPWP-NYS as per the specifications and all inclusive of associated costs to the contractor.

%

LABOUR INTENSIVE PARTICIPATION GOAL

3 Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by Employer taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by Employer taking into account specific project variables

Item

162,000.00

4 Allowance for profit all inclusive of associated costs to the contractor for implementation.

%

Carried to Collection

R

PROVISIONAL SUMS
Provisional Sums

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	51	
2	BUILDING WORKS	115	
3	EXTERNAL WORKS	171	
4	ELECTRICAL INSTALLATIONS	201	
5	WET SERVICES	218	
6	HVAC	219	
7	PROVISIONAL SUMS	227	
	TOTAL OF BUILDING WORKS :		R
	CONTINGENCIES @5%		R
	SUBTOTAL INCLUDING CONTINGENCIES		R
	ESCALATION	Item	2,254,898.44
	SUBTOTAL INCLUDING ESCALATION		R
	Add VAT @15%		R
	TOTAL CARRIED TO FORM OF OFFER & ACCEPTANCE		R