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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:

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"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

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	<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		
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1	<p>Fixed_____ Value Related_____ Time Related_____</p> <p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p>	Item	
2	<p>Fixed_____ Value Related_____ Time Related_____</p> <p>A6.0 CONTRACTOR'S SITE REPRESENTATIVE</p> <p>Clause 6.0</p>	Item	
3	<p>Fixed_____ Value Related_____ Time Related_____</p> <p>A7.0 COMPLIANCE WITH LAW AND REGULATIONS</p> <p>Clause 7.0</p> <p>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</p> <p>The cost of compliance with all applicable laws, regulations and procedures provided for in this agreement and generally shall be borne by the contractor</p>	Item	
4	<p>Fixed_____ Value Related_____ Time Related_____</p> <p>A8.0 WORKS RISK</p> <p>Clause 8.0</p>	Item	
5	<p>Fixed_____ Value Related_____ Time Related_____</p> <p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p>	Item	
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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>	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**.

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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.

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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

A11.0 SPECIAL INSURANCES

Clause 11.0

2 Fixed _____ Value Related _____ Time Related _____

Item

A12.0 EFFECTING INSURANCES

Clause 12.0

3 Fixed _____ Value Related _____ Time Related _____

Item

A13.0 ASSIGNMENT

4 Fixed _____ Value Related _____ Time Related _____

Item

A14.0 SECURITY

Clause 14.0

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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**.

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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**.

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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)

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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:

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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

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<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p>				
1	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p>				
2	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>A22.0 EMPLOYERS DIRECT CONTRACTORS</p> <p>Clause 22.0</p>				
3	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p>				
4	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>COMPLETION</p> <p>A24.0 PRACTICAL COMPLETION</p> <p>Clause 24.0</p>				
5	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>A25.0 WORKS COMPLETION</p> <p>Clause 25.0</p>				
6	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>A26.0 FINAL COMPLETION</p>				
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	Clause 26.0				
	Clause 26.1.2 is amended by inserting "#" next to 26.1.2				
1	Fixed_____Value Related_____Time Related_____ A27.0 LATENT DEFECTS LIABILITY PERIOD	Item			
2	Clause 27.0	Item			
3	Fixed_____Value Related_____Time Related_____ A28.0 SECTIONAL COMPLETION	Item			
4	Clause 28.0	Item			
5	Fixed_____Value Related_____Time Related_____ A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION	Item			
	Clause 29.0				
6	Fixed_____Value Related_____Time Related_____ A30.0 PENALTY FOR LATE OR NON-COMPLETION	Item			
	Clause 30.0				
	0.05% of the Contract Amount inclusive of Value Added Tax (VAT) per Calendar day				
7	Fixed_____Value Related_____Time Related_____ PAYMENT	Item			
	A31.0 INTERIM PAYMENT				
	Clause 31.0				
	Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"				
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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**

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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

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	<p>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"</p> <p>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"</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p>	Item		
2	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>TERMINATION</p> <p>A36.0 TERMINATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of the contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>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</p> <p>Clause 36.0 is amended by the addition of the following clause:</p>	Item		
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	<p>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</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>A37.0 TERMINATION BY EMPLOYER LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>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</p>	Item		
2	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>A38.0 TERMINATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>		R	

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

1	<p>Fixed _____ Value Related _____ Time Related _____</p> <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 	Item		
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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

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<p>42.4.2 Three (3) copies of construction documentation to be supplied to the contractor free of charge</p>			
<p>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</p> <p>Edition No.7 Amendment 2015 as amended</p>			
<p>42.4.4 On acceptance of the tender the priced bills of quantities to be submitted within 7 working days</p>			
<p>42.4.5 JBCC Engineering General Conditions are to be included with the contract documents N/A</p>			
<p>42.4.6 Alternative where the contract is not to be adjusted using CPAP N/A</p>			
<p>42.4.7 Details of changes made to the provisions of JBCC standard documentation</p>			
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			
<p>1 Fixed _____ Value Related _____ Time Related _____</p>	Item		
B2.0 DOCUMENTS			
B2.1 Checking of documents			
<p>2 Fixed _____ Value Related _____ Time Related _____</p>	Item		
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B2.2 Provisional bills of quantities				
1	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				
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1	Fixed _____ Value Related _____ Time Related _____ B3.6 Previous work - defects	Item
2	Fixed _____ Value Related _____ Time Related _____ B3.7 Services - known	Item
3	Fixed _____ Value Related _____ Time Related _____ B3.8 Services - unknown	Item
4	Fixed _____ Value Related _____ Time Related _____ B3.9 Protection of trees	Item
5	Fixed _____ Value Related _____ Time Related _____ B3.10 Articles of value	Item
6	Fixed _____ Value Related _____ Time Related _____ B3.11 Inspection of adjoining properties	Item
7	Fixed _____ Value Related _____ Time Related _____ B4.0 MANAGEMENT OF CONTRACT B4.1 Management of the works	Item
8	Fixed _____ Value Related _____ Time Related _____ B4.2 Programming for the works	Item
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	<p>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.</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>B4.3 Progress meetings</p>	Item		
2	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>B4.4 Technical meetings</p>	Item		
3	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>B4.5 Labour and plants records</p>	Item		
4	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</p> <p>B5.1 Samples of materials</p>	Item		
5	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>B5.2 Workmanship samples</p>	Item		
6	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
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<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 <p>1 Fixed _____ Value Related _____ Time Related _____</p>			
<p>B5.4 Compliance with manufacturer's instructions</p> <p>2 Fixed _____ Value Related _____ Time Related _____</p>			
<p>B6.0 TEMPORARY WORKS AND PLANT</p> <p>B6.1 Deposits and fees</p> <p>3 Fixed _____ Value Related _____ Time Related _____</p>			
<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>			
<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>		<p style="text-align: center;">R</p>	

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

[illegible]

[illegible]

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)

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<p>12.2.1 Payment of preliminaries [10.2] Option A (pro rated) YES Option B (calculated) NO</p> <p>12.2.2 Adjustment of preliminaries [10.30] Option A (three categories) NO Option B (detailed breakdown) YES</p> <p>12.2.3 Additional agreed preliminaries items Details: N/A</p>			
<p>SECTION C: SPECIFIC PRELIMINARIES</p> <p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p> <p>C1.0 CONTRACT DRAWINGS</p> <p>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</p> <p>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</p> <p>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</p>			
<p>1 Fixed _____ Value Related _____ Time Related _____</p>	Item		
<p>C2.0 GENERAL PREAMBLES</p> <p>Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>		R	

	<p>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;</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>C3.0 TRADE NAMES</p> <p>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</p> <p>if prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p>			
2	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>N/A</p>			
3	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>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</p>			
4	<p>Fixed _____ Value Related _____ Time Related _____</p>	Item		
	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>		R	

	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 _____ 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	Item		
2	Fixed _____ Value Related _____ Time Related _____ 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	Item		
3	Fixed _____ Value Related _____ Time Related _____ C9.0 PROHIBITION OF TAKING OF PHOTOGRAPHS	Item		
	Carried to Collection		R	
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	<p>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</p> <p>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</p>			
1	<p>Fixed _____ Value Related _____ Time Related _____</p> <p>C10.0 HIV/AIDS AWARENESS</p> <p>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</p> <p>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.</p> <p>C10.1 Awareness champion</p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provisional of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Item		
2	<p>Fixed _____ Value Related _____ Time Related _____</p> <p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Preliminaries</p>	Item	R	

C10.2 Awareness workshops

Selection and appointment of a competent Service Provider approved by the **Principal Agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

1 Fixed _____ Value Related _____ Time Related _____

Item

C10.3 Posters, booklets, videos, etc.

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc, for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

2 Fixed _____ Value Related _____ Time Related _____

Item

C10.4 Access to condoms

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

3 Fixed _____ Value Related _____ Time Related _____

Item

C10.5 Monitoring

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

C10.6 Non cession of monies

Clause 10.6

Carried to Collection

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1	Fixed _____ Value Related _____ Time Related _____	Item	
	C10.7 Money provision		
	C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT		
	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).		
	It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities /lump sum document .		
	The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.		
	Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and 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		
2	Fixed _____ Value Related _____ Time Related _____	Item	
3	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	Item	
4	Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals	Item	
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CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
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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	
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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		
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[illegible]

<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</u>				
<u>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	
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CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
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PRELIMINARIES AND GENERAL			
Preliminaries			

<p><u>Density Testing On Filling</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved</p> <p>When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p> <p><u>Formwork</u></p> <p>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"</p> <p><u>Reinforced Concrete</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator.</p> <p><u>EXCAVATIONS, FILLING, ETC</u></p> <p>Excavate in earth to open face over site to reduce levels.</p> <p>Extra over excavations in earth to trenches for excavation in soft rock.</p> <p>Ditto, but in hard rock.</p> <p>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).</p> <p>Extra over all excavations for carting away from the site all surplus excavated material.</p> <p>Allow for risk of collapse to sides of trench excavations not exceeding 1500mm deep.</p>							
	m3	3,476					
	m3	253					
	m3	169					
	m2	1,300					
	m3	1,577					
	m2	541					
Carried to Collection							
BUILDING WORKS							
Earthworks (Provisional)							

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

[illegible]

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

Carried to Collection

R

Reinforced Concrete

All reinforced concrete is to be compacted with a mechanical vibrator. All concrete work shall comply to SABS 1200G.

Formwork

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

CONCRETE

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.-----

- | | | | | | |
|---|--|----|-----|--|--|
| 1 | Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional). | No | 120 | | |
|---|--|----|-----|--|--|

Un-reinforced Cement Concrete (15MPa) In

- | | | | | | |
|---|-----------|----|-----|--|--|
| 2 | Blinding. | m3 | 162 | | |
|---|-----------|----|-----|--|--|

Carried to Collection

BUILDING WORKS

Concrete, Formwork & Reinforcement

R

<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				R	
BUILDING WORKS					
Concrete, Formwork & Reinforcement					

Fabric Reinforcement To Concrete Work

Carried to Collection

BUILDING WORKS

Concrete, Formwork & Reinforcement

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[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL NO. 3

PRECAST CONCRETE (CPAP Work Group No.112)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Sizes

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.

General

Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming.

COPING, SILLS, ETC.

1	1000 x 650mm Precast concrete pit covers.	No	20
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Carried Forward to Summary of Section No. 2

BUILDING WORKS

Precast Concrete

<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					

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

[illegible]

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

[illegible]

[illegible]

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

[illegible]

[illegible]

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				
BUILDING WORKS				
Roof Coverings, Etc.				

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

[illegible]

[illegible]

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			R	
	BUILDING WORKS				
	Carpentry & Joinery				

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

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		
				R	
Carried to Collection					
BUILDING WORKS Carpentry & Joinery					

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

	<u>42mm Thick Hardwood Braced Back Solid Meranti And Lugged 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					

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL No. 8

FITTINGS (CPAP Work Group No.126)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Referencing

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

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

BUILDING WORKS
Fittings

R

[illegible]

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[illegible]

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

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL NO. 10

FLOOR COVERINGS, WALL LININGS, ETC
(CPAP Work Group No.130)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Sizes and patterns of vinyl tiles described hereunder may vary from the final specification.

No claim for extras in respect of additional labour or wastage will be entertained should final sizes vary from those described hereunder.

Rates for vinyl tiling are deemed to include for laying in square or diagonal patterns AND in one or alternating tones of colours as may be specified by the Principal agent and/or Architect

Cleaning

Rates for floor covering shall include for cleaning on completion

Colours

All materials shall be in colours to be selected by the Principal Agent and, where applicable, laid to approved patterns

Carried to Collection

R

BUILDING WORKS
Floor Coverings, Plastic Linings, Etc.

[illegible]

[illegible]

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	No	261		
Carried to Collection				R
BUILDING WORKS				
Ironmongery				

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

	<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			R
	BUILDING WORKS Ironmongery			

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

[illegible]

[illegible]

<p>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.</p> <p>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.</p> <p>The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.</p> <p>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.</p> <p><u>Fire resistance:</u></p> <p>The installation shall conform to the local authorities resistance standards.</p> <p><u>Protection and cleaning:</u></p> <p>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.</p> <p>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.</p> <p><u>GALVANISED PRESSED METAL DOOR FRAMES</u></p> <p><u>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</u></p>				
<p>1 Frame for door size 813 x 2032mm high.</p> <p style="text-align: right;">Carried to Collection</p> <p>BUILDING WORKS Metalwork</p>	No	42		R

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

[illegible]

<u>ROLLERSTYLE ADD ON INTERNAL SURFACE MOUNT PRE-PAINTED ALUMINIUM ROLL-UP DOORS</u>					
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		
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>					
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		
<u>The following work to be undertaken by the specialist approved by AAMSA.</u>					
<u>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</u>					
5	Window type W1 overall size 1778 x 1248mm High.	No	1		
6	Window type W2 overall size 1200 x 1375mm High.	No	2		
<u>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</u>					
7	Window type 9T6B size 889 x 457mm High.	No	38		
Carried to Collection					
BUILDING WORKS					
Metalwork					

<u>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</u>					
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		
<u>Standard Residential Galvanised Steel Doors With And Including Trelli Burglary Internally As Per Drawing Number S20-03-03-001 Rev B</u>					
4	D1 - Door size 1524 x 2134mm High.	No	2		
<u>NATURAL ANODISED ALUMINIUM LOUVRE UNITS</u>					
<u>Adjustable louvre units screwed into brickwork</u>					
5	Louvre unit for 1200 x 1200mm high opening	No	2		
<p style="text-align: right;">Carried to Collection</p>					
BUILDING WORKS Metalwork					

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL NO. 13

PLASTERING (CPAP Work Group No.142)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

SCREEDS

Screeds On Concrete

1	25mm Thick on floors.	m2	2,936
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Self Levelling Screed

2	8mm Thick on floors.	m2	2,130
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GRANOLITHIC

Granolithic On Concrete

3	85mm Thick on floors.	m2	181
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INTERNAL PLASTER

Carried to Collection

R

BUILDING WORKS

Plastering

[illegible]

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon") range of products as recommended by the manufacturer of the tiles

FLOOR TILING

600 x 600 x 12mm Porcelain Floor Tiles Fixed With Adhesive To screed (Screed Elsewhere) And Flush Pointed With Tinted Waterproof Grout. Colour Ranges: Beige Patterns And Variations. Samples To Be Provided To Architect And Client For Approval

1	On floors.	m2	7		
---	------------	----	---	--	--

WALL TILING

Ceramic Wall Tiles Size 300 x 300 x 7.6mm Thick Fixed With Adhesive And Jointed And Pointed With Flush Joints In Grout On Plaster (Elsewhere Measured)

2	On walls.	m2	3		
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Ceramic Wall Tiles Size 600 x 200 x 7.6mm Thick Fixed With Adhesive And Jointed And Pointed With Flush Joints In Grout On Plaster (Elsewhere Measured)

3	On walls.	m2	39		
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4	On narrow widths.	m2	2		
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DIVIDING STRIPS, ETC

5	30 x 10mm Aluminium tile-in corner protector straight edge trim by Kirk marketing or similar approved.	m	1		
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Carried to Collection

BUILDING WORKS
Tiling

R

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

Carried to Collection

R

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

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	
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 foor 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, fitments 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)					

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

	Cobra or Similar And Approved				
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		
	uPVC				
2	110mm Vent pipe	No	15		
3	Urinal offset tail pipe	No	5		
	TAPS, VALVES, ETC.				
	Chromium Plated Brass Fittings Including Couplings To Copper				
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)				

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

	<u>TESTING</u>				
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)				

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

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL NO. 16

GLAZING (CPAP Work Group No.150)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

TOPS, SHELVES, DOORS, MIRRORS, ETC.

**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**

1	Mirror size 450 x 900mm high.	No	13
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6mm thick Obscure Safety Glass

2	Shower sliding door size 1100 x 1200mm high.	No	1
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Carried Forward to Summary of Section No. 2

BUILDING WORKS

Glazing

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

	<u>Prepare And Apply One Coat Primer And Two Coats Approved Vanish Paint On</u>				
1	General surfaces on doors.	m2	313		
	<u>Prepare And apply Two Coats Varnish, Lightly Sanded Between Coats, And With First Coat Thinned 10% With Wood Treatment On</u>				
2	Skirtings, etc.	m	1,762		
	<u>Prepare And Apply Two Coats Carbolinium Wood Preservative On</u>				
3	Wall plate.	m2	86		
	<u>FIBRE CEMENT</u>				
	<u>Prepare, Stop And Apply One Coat Alkali Resistant Primer, One Coat Universal Undercoat And Two Finishing Coats Of Acrylic Emulsion Paint On</u>				
4	Fascia and barge boards.	m2	393		
	<u>ON PLASTER BOARD</u>				
	<u>Sand Down, Prepare And Apply One Coat Primer And Two Coats White Matt Paint To Manufacturer's Specification On</u>				
5	Ceilings and cornices.	m2	3,117		
					R
BUILDING WORKS Paintwork	Carried to Collection				

[illegible]

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

[illegible]

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

[illegible]

[illegible]

BILL No. 2

SECURITY FENCING AND GATES **(PROVISIONAL)**

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371 with its latest ammendements"

SUPPLEMENTARY PREAMBLES

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

Fencing

Reinforced Concrete

All to be constructed as per manufactures specification

Site Clearance

- | | |
|---|---|
| 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. |
|---|---|

- 2 | Excavate in earth not exceeding 2m deep and fill adjacent portion to make up levels under fence line.

Cement Concrete (15 MPa) Mass in

- 3 Concrete blinding cast against excavated surfaces.

IRONMONGERY

Carried to Collection

EXTERNAL WORKS

Fencing (Provisional)

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

[illegible]

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

[illegible]

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		
				R	
Carried to Collection					
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				

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

<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				R	
EXTERNAL WORKS					
Walkways, Roads, Parkings And Assembly Area					

[illegible]

BILL No. 4

WATER TANKS & STANDS (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

RAINWATER TANKS AND STANDS

Excavations, Filling, Etc

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

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

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				R	
EXTERNAL WORKS					
Water Tanks & Stands					

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

<u>Sundries</u>				
1	Float top of concrete, to falls, with a wood float and finish with a brushed non-skid surface whilst concrete still green with the addition of 2.1 sand and cement as necessary.	m2	115	
<u>FORMWORK</u>				
<u>Rough Formwork To</u>				
2	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	109	
<u>Movement Joints, Etc</u>				
3	Expansion joint not exceeding 300mm high or wide formed of one layer 10mm thick soft board joint filler set between vertical concrete or brick surfaces.	m	82	
<u>BRICKWORK</u>				
<u>Brickwork In Clay Bricks In Cement Mortar In</u>				
4	300mm Cavity brick wall.	m2	116	
<u>BRICK REINFORCEMENT:</u>				
5	150mm Wide reinforcement built in horizontally	m	580	
<u>WATERPROOFING</u>				
6	Under surface beds.	m2	115	
<u>ONE LAYER 375MICRON EMBOSSED DAMPPROOF SHEETING</u>				
7	On walls.	m2	33	
<u>FACE BRICKWORK</u>				
<u>"Montana" Face Bricks Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints</u>				
8	Extra over ordinary brickwork for face brickwork.	m2	116	
<u>PLUMBING</u>				
Carried to Collection				
EXTERNAL WORKS				
Water Tanks & Stands				

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

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
TAPS		
Lockable tap cover provided with padlock		
2	Water tank taps with padlock.	No 13
Carried to Collection		
EXTERNAL WORKS		
Water Tanks & Stands		

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

[illegible]

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 | Gravel material in compacted layer thickness of 150mm or less from Commercial source. | m3 | 750 | |
|---|---|----|-----|--|

FERTILIZERS

Supply And Store Materials

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

EXTERNAL WORKS
Soccer Filed (Provisional)

R

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		
				R	
Carried to Collection					
EXTERNAL WORKS Soccer Filed (Provisional)					

[illegible]

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

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.	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			

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

<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				R	
EXTERNAL WORKS					
Combicourt					

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

[illegible]

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

[illegible]

Density Testing On Filling

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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

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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.

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

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

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

	<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 Sheetting</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		

Carried to Collection

R

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

[illegible]

[illegible]

[illegible]

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

<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		
EXTERNAL WORKS Stormwater Drainage		Carried to Collection		R	

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL No. 9

RETAINING WALLS (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

EXCAVATIONS, FILLING, ETC

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

EXTERNAL WORKS

Retaining Walls

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

<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				

[illegible]

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. 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			

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL No. 11

WATER SUPPLY (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371"

SUPPLEMENTARY PREAMBLES

Preambles

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

WATER SUPPLY PIPES

HDPE Class 6 water pipes

1	75mm Pipes laid in and including trenches not exceeding 1000mm deep	m	842
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Extra over HDPE pipes for "Plasson" or other approved fittings

2	75mm End cap	No	6
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3	75mm Bend	No	8
---	-----------	----	---

4	75mm Tee	No	7
---	----------	----	---

5	75mm Valve	No	2
---	------------	----	---

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

6	On 75mm HDPE pipe	No	14
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Carried to Collection

EXTERNAL WORKS

Water Supply

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

<u>Sundries</u>			
1	200 x 200mm Thrust block	No	12
2	250 x 300mm Thrust block	No	10
3	200 x 650mm Thrust block	No	10
EXTERNAL WORKS		Carried to Collection	R
Water Supply			

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

BILL No. 12

SEPTIC TANK (PROVISIONAL)

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification Of Materials And Methods To Be Used -
PW371 with its latest ammendements"

SUPPLEMENTARY PREAMBLES

The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.

Proprietary Products In Descriptions

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

EARTHWORKS (PROVISIONAL)

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

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

[illegible]

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

1	Sides of concrete walls.	m2	156
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High Tensile Steel Reinforcement To Structural Concrete Work.</u>			
2	High Tensile Bars, etc	t	4.92
<u>DAMPROOFING OF WALLS AND FLOORS</u>			
<u>One Layer Of 250 Micron Type C Waterproof Sheeting Sealed At Lapse With Sensitive Tape</u>			
3	Under surface beds.	m2	36
<u>SUNDRIES</u>			
4	Chamfers	m	24
5	Manhole cover	No	1
6	100mm Vent pipe	No	1
7	110mm Diameter uPVC overflow pipe with 500 wide trench at 1:500 to surface at lowest point of stand	No	1
8	Soakway comprises of 300mm thick layer of clean 20mm to 40mm aggregate bedding, 160mm uPVC perforated distribution pipe on selected fill blanket of 19mm clean gravel, 150mm G7 backfill compacted to 90% Mod AASHTO density with an allowance of 75mm settlement	m	85
Carried to Collection			
EXTERNAL WORKS			
Septic Tank			

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

[illegible]

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"

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

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 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

BLOCK PAVING

**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**

4	Paving to patterns as architects design and to falls and cross falls.	m2	2,250
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PRECAST CONCRETE

**Precast Cement Concrete (20MPa) Kerbs And
Channels Finished Smooth From The Mould On
Exposed Surfaces And Including Excavation,
Backfilling, Etc**

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
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WATERPROOFING

**Two Layers 250 Micron Waterproof Sheetting With
Staggered Joints**

6	On compacted earth under concrete and paving bricks.	m2	2,250
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ROAD MARKINGS

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

**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

[illegible]

ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

Bill
No

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				

CABLES AND CABLES TERMINATIONS

Supply, install and connect reticulation cables installed
in cable ladder, tray, trenching or sleeves

Cable Schedule

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

Cable Schedule

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

Cable Schedule

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

Cable Schedule

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

CABLE TRENCHING

**Excavate and backfill cable trench, 600mm deep and
500mm wide, including compacting**

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	In soft rock.	m3	135
2	In hard rock.	m3	68
3	Danger Tape.	m	1,305
<u>Sleeves</u>			
4	Electrical 70mm diameter sleeves type NEXTUBE or similar including sealing of sleeve ends excluding excavation.	m	1,000
5	Electrical 110mm diameter sleeves type NEXTUBE or similar including sealing of sleeve ends excluding excavation.	m	400
6	Electronic 110mm diameter sleeves type NEXTUBE or similar including sealing of sleeve ends excluding excavation.	m	400
7	Electronic 50mm diameter galvinased sleeves including sealing of sleeve ends excluding excavation.	m	1,000
<u>TRUNKING</u>			
<u>Supply and install Trunking complete with all accessories including couplings, bending and fixings as specified</u>			
8	P9000 Trunking.	m	1,200
9	Tees.	No	24
10	90 degree bands.	No	8
11	End caps.	No	4
<u>Manholes</u>			
12	Supply and install in ground 800mmx800mmx600mm deep manhole.	No	4
<u>Test and Commission</u>			
13	Test and Commission for the complete electrical installation.		
			SUM
Carried to Collection			R
ELECTRICAL INSTALLATIONS Reticulation			

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

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ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT

Carried to Collection

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			R
ELECTRICAL INSTALLATIONS Block G & Admin block				

<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				R	
ELECTRICAL INSTALLATIONS					
Block G & Admin block					

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

<u>Terminations of down conductors to earth conductors</u>				
1	Termination of 50mm2 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	50mm2 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- suface 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				

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

ELECTRICAL INSTALLATIONS			
Block G & Admin block			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	177		
	178		
	179		
	180		
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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
	BILL No.3			
	<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			

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

1	2.5mm² 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				R	
ELECTRICAL INSTALLATIONS Block C, D, F, K & H					

Section 2: Electronic Services Outlets

LIGHTNING AND EARTHING PROTECTION

- | | | | |
|---|---|----|----|
| 1 | Termination of 50mm ² aluminium conductor to 50mm ² aluminium conductor installed on roof perimeter including lugs rivets and silver solder, etc. | No | 25 |
|---|---|----|----|

Air terminal conductors

- | | | | |
|---|---|---|----|
| 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 | 75 |
|---|---|---|----|

Down conductors

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

Terminations of down conductors to earth conductors

- | | | | |
|---|--|----|----|
| 4 | Termination of 50mm ² green PVC copper conductor to earthing conductor including lugs and silver solder, etc. | No | 50 |
|---|--|----|----|

EARTHING CONDUCTORS

Termination of earth conductor to earth electrodes including making of the ends, lugs, clamps, etc

- | | | | |
|---|---|----|----|
| 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- suface mounted.	m	78		
5	105 X105 Steel Box - Junction Box/Test Point complete with all accessories and cover.	m	20		
Carried to Collection				R	
ELECTRICAL INSTALLATIONS					
Block C, D, F, K & H					

CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
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ELECTRICAL INSTALLATIONS		
Block C, D, F, K & H		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	<div>Page No</div> <div>182</div> <div>183</div> <div>184</div> <div>185</div>	<div>Amount</div>
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CONSTRUCTION OF THE NEW INKOSI MKHUPHUKILE HIGH SCHOOL
ALFRED DUMA MUNICIPALITY IN UTHUKELA DISTRICT
ADDENDUM NO.1

Item No		Quantity	Rate	Amount
BILL No.4				
BLOCK I, J & E				
<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				

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

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			

[illegible]

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

<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				R
ELECTRICAL INSTALLATIONS Block I, J & E				

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
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ELECTRICAL INSTALLATIONS				
Block I, J & E				
<u>COLLECTION</u>				
Total Brought Forward from Page No.				

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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- suface mounted.	m	80	
2	20mm diameter PVC conduit complete installed with all bends, fixingsaddles, adaptors, chased into walls, ect. as specified- suface 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			

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

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			

<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 bluminium 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/waterdown 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		

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

[illegible]

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		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	<div>Page No</div> <div>193</div> <div>194</div> <div>195</div> <div>196</div>	<div>Amount</div>
<div>Carried Forward to Summary of Section No. 4</div> <div>ELECTRICAL INSTALLATIONS</div> <div>Block A & B Pump & LV room</div>		<div>R</div>

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

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

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

[illegible]

[illegible]

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

[illegible]

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>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				

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

1	Dia 28.	m	60	
2	Dia 22.	m	90	
3	Dia 15.	m	180	
<u>Tees</u> Extra over copper piping for capillary fittings in accordance with SANS - 2 complete with hangers, brackets, soldering , etc.				
4	Dia 35-35-35.	No	30	
5	Dia 28-28-28.	No	30	
6	Dia 22-22-22.	No	45	
7	Dia 15-15-15.	No	90	
<u>Reducers</u> Extra over copper piping for capillary fittings in accordance with SANS - 2 complete with hangers, brackets, soldering , etc				
8	35 - 28.	No	30	
9	28 - 22.	No	45	
10	22 - 15.	No	90	
<u>Isolating Valves</u> Ball type Isolating Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions and complying to SANS 1056 - 3				
11	Dia 35.	No	15	
12	Dia 28.	No	20	
13	Dia 22.	No	30	
14	Dia 15.	No	60	
Carried to Collection				R
WET SERVICES				
Internal Domestic Hot and Cold Water				

[illegible]

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

SOLAR GEYSERS

- | | |
|---|--|
| 1 | Vertical 100Litres electrical pressure geyser c/w associated fittings. |
| 2 | 15Litres undersink electrical pressure geyser c/w associated fittings. |

No

2

No

1

Carried to Collection

R

WET SERVICES
Internal Domestic Hot and Cold Water

[illegible]

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			
	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

[illegible]

[illegible]

Carried to Collection

WET SERVICES

Fire Hose Reels and Hydrants

[illegible]

[illegible]

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>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				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	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			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

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

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

	WET SERVICES			
Bill No	<u>SECTION SUMMARY - WET SERVICES</u>	Page No		Amount
	Internal Domestic Hot and Cold Water	206		
	External Water and Fire Reticulation	209		
	Fire Hose Reels and Hydrants	212		
	Water Storage and Fire & Water Booster Pumps	217		
	WET SERVICES		R	
	Carried to Final Summary			

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				

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

[illegible]

GEOHYDROLOGIST AND HYDROPEDELOGY STUDY

1	Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for geohydrologist and hydrogeology 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

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

<u>MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS</u>				
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.		%	
<u>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</u>				
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.		%	
<u>MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT</u>				
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			R	
PROVISIONAL SUMS				
Provisional Sums				

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 • 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.		%		
				R	
Carried to Collection					
PROVISIONAL SUMS					
Provisional Sums					

NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME					
1	<p>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</p> <ul style="list-style-type: none"> • Training of Youth Workers • Travelling during on-site training • Appointment of employment youth workers and montly 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	<p>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.</p>		%		
<u>LABOUR INTENSIVE PARTICIPATION GOAL</u>					
3	<p>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</p>			Item	162,000.00
4	<p>Allowance for profit all inclusive of associated costs to the contractor for implementation.</p>		%		
Carried to Collection					R
PROVISIONAL SUMS					
Provisional Sums					

[illegible]

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

Section No	FINAL SUMMARY	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