

Carried to Collection

DEFINITIONS

1 A1 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

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

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

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

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

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

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

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

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

"FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

<p>"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) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)</p> <p>Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:</p> <p>"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</p> <p>Clause 1.1 Definition of "Security" is amended by replacing it with the following:</p> <p>"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</p> <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> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>	Item		R
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------	--	---

	<u>OBJECTIVE AND PREPARATION</u>			
2	A2 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0 Fixed: _____ Value related: _____ Time related: _____	Item		
3	A3 DOCUMENTS Clause 3.0 Clause 3.2.1 is amended by replacing "14.1" with "14.0" Clause 3.7 is amended by the addition of the following: <div style="padding-left: 40px;"> The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times </div> Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer " Fixed: _____ Value related: _____ Time related: _____	Item		
4	A4 DESIGN RESPONSIBILITY Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

5	<p>A5 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
6	<p>A6 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
7	<p>A7 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separte clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the oppurtunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
8	<p>A8 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
9	<p>A9 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
<p>Carried to Collection</p>			R	
<p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>				

10 A10 WORKS INSURANCES

Clause 10.0

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

10.5 Damage to the Works

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

10.6 Injury to Persons or loss of or damage to Properties

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

- (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 and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

10.7.2 Injury to persons or loss of or damage to property

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

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

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

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

Fixed: _____ Value related: _____ Time related: _____

Item

11 A11 LIABILITY INSURANCES

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

Item

12 A12 EFFECTING INSURANCES

Clause 12.0

Fixed: _____ Value related: _____ Time related: _____

Item

13 A13.0 No clause

N/A

14 A14 SECURITY

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted 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)

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

- 14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)
- 14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**
- 14.2** In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.
- 14.3** Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:
- 14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**
- 14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

- 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 to the **contractor**
- 14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party
- 14.4** Where **security** as a variable construction guarantee of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:
- 14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**
- 14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender
- 14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring
- 14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

<p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>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)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>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</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>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:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>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</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		<p>R</p>	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

- 14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)
- 14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both
- 14.7** Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:
- 14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)
- 14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**
- 14.8** Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**
- 14.9** Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

EXECUTION**15 A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

16 A16 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

Item

17 A17 CONTRACT INSTRUCTIONS

Clause 17.0

Clause 17.1.1 is amended by replacing "and the appointment of nominated and selected sub-contractors" with "and the appointment of selected sub-contractors"

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection**R**

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

18 **A18 SETTING OUT OF THE WORKS**

Clause 18.0

Fixed: _____ Value related: _____ Time
related: _____

Item

19 **A19 ASSIGNMENT**

Clause 19.0

Fixed: _____ Value related: _____ Time
related: _____

Item

20 **A20 NOMINATED SUB-CONTRACTORS**

Clause 20.0

Clause 20.1.3 is amended by replacing it with the
following:

No Clause

Note: See item B9.1 hereinafter for adjustment
of attendance on **nominated subcontractors**
executing work allowed for under provisional
sums

Fixed: _____ Value related: _____ Time
related: _____

Item

21 **A21 SELECTED SUB-CONTRACTORS**

Clause 21.0

Note: See item B9.1 hereinafter for adjustment
of attendance on **selected sub-contractors**
executing work allowed for under provisional
sums

Fixed: _____ Value related: _____ Time
related: _____

Item

22 **A22 EMPLOYER'S DIRECT CONTRACTORS**

Clause 22.0

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

23	<p>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>COMPLETION</u></p>	Item		
24	<p>A24 PRACTICAL COMPLETION</p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
25	<p>A25 WORK'S COMPLETION</p> <p>Clause 25.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
26	<p>A26 FINAL COMPLETION</p> <p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
27	<p>A27 LATENT DEFECTS LIABILITY PERIOD</p> <p>Clause 27.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
28	<p>A28 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

29	<p>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 29.5 is amended by replacing "sixty (60)" with "twenty (20)"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>				
30	<p>A30 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>PAYMENT</u></p>	Item			
31	<p>A31 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>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:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p>	Item			
Carried to Collection					
<p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>				R	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

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** is a payment reduction in terms of 14.7 has been selected the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

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

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

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

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

Clause 31.12 is amended by deleting the following:

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

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

Fixed: _____ Value related: _____ Time related: _____

32 A32 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

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

Fixed: _____ Value related: _____ Time related: _____

Item

33 A33 RECOVERY OF EXPENSE AND LOSS

Fixed: _____ Value related: _____ Time related: _____

Item

34 A34 FINAL ACCOUNT AND FINAL PAYMENT

Clause 34.0

Clause 34.1 is amended by removing "#" next to 34.1

Clause 34.2 is amended by inserting "#" next to 34.2

Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"

Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty-one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

35 **A35 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: _____ Value related: _____ Time
related: _____

Item

CANCELLATION

36 **A36 CANCELLATION BY EMPLOYER -
CONTRACTOR'S DEFAULT**

Clause 36.0

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

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

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

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

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

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

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

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

37 A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE

Clause 37.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

38 A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

39 **A39 CESSATON - CANCELLATION 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 report"

Fixed: _____ Value related: _____ Time related: _____

Item

40 **A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs

Fixed: _____ Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS41 **A41 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES**Carried to Collection**

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

THE SCHEDULE

42 **A42 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the "Contract Variables" as scheduled hereunder for variables pertaining to this contract

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

THE SCHEDULE

Schedule contains all **variables** referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of the **agreement**

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

42.0 PRE-TENDER INFORMATION

42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer

Independent Development Trust

Postal address:

P.O. Box 55386
 Polokwane
 0700

Tel: 015 295 0000
 Contact person: Lucas Seloga

[1.2] Physical address:

ABSA Building
 76E Schoeman Street
 Polokwane
 0700

42.1.2 Principal Agent

[1.1, 5.1] *KS Manyathela Architects
 9 Neethling Street, Hampton Court,*

*Tel. (015) 590 4859
 Fax (086) 541 5210*

[1.1] Representative of the Employer

Details

42.1.3 Agent (1): SRSQS Quantity Surveyors (Pty) Ltd

100 Marshall Street, Polokwane, 0699

*Tel (015) 291 1005
 Fax (086) 560 4404*

Agent's service: *Quantity Surveyors*

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

42.1.4 Agent (2): KS Manyathela Architects
9 Neethling Street, Hampton Court,

*Tel. (015) 590 4859
 Fax (086) 541 5210*

Agent's service: Architects

42.1.5 Agent (3): TS Consulting

*371 De Wet Drive & Schalk Drive
 Tel (015) 704 1876*

Agent's service: Structural & Civil Engineer

42.1.6 Agent (4): Phunga Holdings
*63 Regency Drive, Irene, Centurion,
 0157*

*Tel (012) 345 6694
 Fax (012) 345 6812*

*Agent's service: Electrical &
 Mechanical Engineers*

42.1.7 Agent (5): Eshep Trading

*[1.1,
 5.2] Details
 31 Market Street, Polokwane, 0699*

Agent's service: OHS Specialist

42.1.8 Agent (6):

*[1.1,
 5.2] Details*

Agent's service:

42.1.9 Agent (7):

*[1.1,
 5.2] Details*

Agent's service:

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

42.2 CONTRACT DETAILS

42.2.1 Works description:

Construction of 30 ordinary classrooms, large administration block, Nutrition Centre, Multi-Purpose School Hall, Science and Life Science Combo, Computer Laboratory and Media Centre Combo, 46 Water borne Toilets for Learners with two being disable (1 for female and 1 for male), 8 additional toilets for teachers (1 disable), multi-purpose classroom, perimeter fencing steel palisade at 2.1m high, Drill and equip borehole, 100kl water storage, 25 covered parking bays and 15 uncovered paved parking bays, guard house, sports fields and assembly area etc.

42.2.1 Site description:

Matamela Ramaphosa Secondary School located at Bela-Bela, Waterberg District, Limpopo Province

42.2.3 Work or installations by direct contractors:

Details: None

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

42.2.4	Specific options that are applicable to a State organ only				
[41.0]	Where so:				
[1.1#]	(1) Interest rate legislation:				
[31.11.2#]	In respect of interest owed by the employer , the interest rate applicable will be determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) will apply and				
[31.12.2#]	In respect of interest owed to the employer , the interest rate applicable will be determined by the Minister of Finance, from time to time, in terms of section 80(1) (b) of the Public Finance Management Act 1999 (Act No 1 of 1999) will apply				
[11.2#]	(2) Lateral support insurance to be effected by the contractor:				
	NO				
[31.4.2#]	(3) Payment will be made for materials and goods:				
	YES				
[40.2.2#]	(4) Dispute resolution by litigation:				
	YES				
[26.1.2#]	(5) Extended defects liability period applicable to the following elements:				
	N/A				
42.2.5	Possession of the site is to be given on:				
[15.2.1#]	Within ten (10) working days of the contractor complying with the terms of 15.1.4				
Carried to Collection					
Section No. 1					
PRELIMINARIES					
Bill No. 1					
PRELIMINARIES					

R

42.2.6	Period for the commencement of the works after the contractor takes possession of the site:				
[15.3]	Immediately after contract has been signed				
42.2.7	The date for practical completion and the penalty per calendar day for the works as a whole:				
[24.3.1]	The date for practical completion shall be 36 months from the commencement date				
[30.1]	The penalty per calendar day shall be R 0.1c per R100.00 of the contract value excluding VAT/Calendar day				
42.2.8	The date for practical completion and the penalty per calendar day for the works in sections :				
[24.3.1]	Section 1:				
[28.1]	<i>Details</i>				
42.2.9	The law applicable to this agreement shall be that of:				
[1.2]	Republic of South Africa				
42.3	INSURANCES				
42.3.1	Contract works insurance:				
[10.1#, 10.2#, 12.1#]	To be effected by: Contractor For the sum of: Minimum value of the contract sum plus 10% With the deductible of: Not exceeding 5% of each and every claim				
42.3.2	Supplementary insurance is required: YES To the minimum value of the contract sum plus 10%				
Carried to Collection					
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES				R	

42.3.3 Public liability insurance:

[11.1#,
12.1#]

To be effected by: **Contractor**

For the sum of: **R 10 000 000-00**

With the deductible of: **Not exceeding 5% of each and every claim**

42.3.4 Support insurance to be effected by the employer:
[11.2#,
12.1#]

NO

42.4 DOCUMENTS

42.4.1	Waivers of contractor's lien or right of continuing possession is required:
[3.3#, 15.1.3, 31.16.2#]	Not applicable (No clause)

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

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

42.4.3 Bills of quantities/Lump sum document
schedule of drawn up with:

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

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

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

42.4.5	JBCC Engineering General Conditions are to be included in the contract documents :				
[3.4]		NO			
42.4.6	The contract value is to be adjusted using CPAP indices:				
[31.5.3]		YES			
	Base month: Tender closing date				
[32.13]	Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000 , code 2118, dated May 2005 and any amendments thereto:				
1)	Glass, etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that workgroup unless specifically stated otherwise in the bills of quantities				
2)	All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index Workgroup 160, Electrical Installations. Uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems, shall be adjusted in terms of the Workgroup 170, Mechanical Services				
3)	With reference to Workgroup 190 a proportion of the value related preliminaries, pro-rata to the amount of work excluded from the adjustment, shall be excluded from Contract Price Adjustment Provisions if Option A has been selected for the adjustment of Preliminaries				
4)	Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of				
Carried to Collection					
Section No. 1					
PRELIMINARIES					
Bill No. 1					
PRELIMINARIES					

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	additional items for exclusion by tenderers will not be permitted																																																																																								
5)	Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual, the factor of 0,55 shall be substituted by 1,45																																																																																								
	Altenative Indices: Not applicable																																																																																								
42.4.7	Details of changes made to the provision of JBCC standard documentation:																																																																																								
[3.10]																																																																																									
Note:	<i>The amended clauses, with relevant item and page numbers, are scheduled hereunder. Refer to each applicable clause for the exact extent of amendments and/or additions made</i>																																																																																								
	<table><tr><td>Clause:</td><td>Item:</td><td>Page:</td></tr><tr><td>1.1</td><td>1</td><td>1</td></tr><tr><td>1.6</td><td>1</td><td>2</td></tr><tr><td>1.6.4</td><td>1</td><td>3</td></tr><tr><td>3.2.1</td><td>3</td><td>3</td></tr><tr><td>3.7</td><td>3</td><td>3</td></tr><tr><td>3.10</td><td>3</td><td>3</td></tr><tr><td>4.3</td><td>4</td><td>3</td></tr><tr><td>5.1.2</td><td>5</td><td>3</td></tr><tr><td>10.5</td><td>10</td><td>4</td></tr><tr><td>10.6</td><td>10</td><td>5</td></tr><tr><td>10.7</td><td>10</td><td>6</td></tr><tr><td>14.1 to 14.9</td><td>14</td><td>7 to10</td></tr><tr><td>15.1</td><td>15</td><td>10</td></tr><tr><td>15.1.1</td><td>15</td><td>10</td></tr><tr><td>15.1.2</td><td>15</td><td>10</td></tr><tr><td>15.2.1</td><td>15</td><td>10</td></tr><tr><td>17.1.11</td><td>17</td><td>11</td></tr><tr><td>20.1.3</td><td>20</td><td>11</td></tr><tr><td>26.1.2</td><td>26</td><td>12</td></tr><tr><td>29.2.5</td><td>29</td><td>12</td></tr><tr><td>31.5.2</td><td>31</td><td>13</td></tr><tr><td>31.8</td><td>31</td><td>13</td></tr><tr><td>31.12</td><td>31</td><td>14</td></tr><tr><td>32.5.1</td><td>32</td><td>14</td></tr><tr><td>32.5.4</td><td>32</td><td>14</td></tr><tr><td>32.5.7</td><td>32</td><td>14</td></tr><tr><td>34.1</td><td>34</td><td>14</td></tr></table>	Clause:	Item:	Page:	1.1	1	1	1.6	1	2	1.6.4	1	3	3.2.1	3	3	3.7	3	3	3.10	3	3	4.3	4	3	5.1.2	5	3	10.5	10	4	10.6	10	5	10.7	10	6	14.1 to 14.9	14	7 to10	15.1	15	10	15.1.1	15	10	15.1.2	15	10	15.2.1	15	10	17.1.11	17	11	20.1.3	20	11	26.1.2	26	12	29.2.5	29	12	31.5.2	31	13	31.8	31	13	31.12	31	14	32.5.1	32	14	32.5.4	32	14	32.5.7	32	14	34.1	34	14				
Clause:	Item:	Page:																																																																																							
1.1	1	1																																																																																							
1.6	1	2																																																																																							
1.6.4	1	3																																																																																							
3.2.1	3	3																																																																																							
3.7	3	3																																																																																							
3.10	3	3																																																																																							
4.3	4	3																																																																																							
5.1.2	5	3																																																																																							
10.5	10	4																																																																																							
10.6	10	5																																																																																							
10.7	10	6																																																																																							
14.1 to 14.9	14	7 to10																																																																																							
15.1	15	10																																																																																							
15.1.1	15	10																																																																																							
15.1.2	15	10																																																																																							
15.2.1	15	10																																																																																							
17.1.11	17	11																																																																																							
20.1.3	20	11																																																																																							
26.1.2	26	12																																																																																							
29.2.5	29	12																																																																																							
31.5.2	31	13																																																																																							
31.8	31	13																																																																																							
31.12	31	14																																																																																							
32.5.1	32	14																																																																																							
32.5.4	32	14																																																																																							
32.5.7	32	14																																																																																							
34.1	34	14																																																																																							
	Carried to Collection																																																																																								
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES				R																																																																																					

34.2	34	14
34.8	34	14
34.13	34	14
36	36	15
36.1	36	15
36.3	36	15
37	37	15
37.3.5	37	15
38	38	16
38.5.4	38	16
39.3.5	39	16
40.2.2	40	17
40.6	40	17
40.7.1	40	17

42.0 POST-TENDER INFORMATION

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

42.5 CONTRACT DETAILS

42.5.1 Contractor:

Postal address:
.....

Tel:
.....

Fax:
.....

Tax/VAT Registration number:
.....

Physical address:
.....

.....

.....

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

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

R

Amount is words:

.....

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

[31.3]

42.5.4 The preliminaries amounts shall be paid in
 terms of:

- [
- **Alternative A:** **YES**
 - **Alternative B:** **NO**

42.5.5 The preliminaries amounts shall be adjusted in
 terms of:

- [32.12]
- **Alternative A:** **YES**
 - **Alternative B:** **NO**

42.5.6 Not applicable/No clause:
 [3.1]

Carried to Collection

R

Section No. 1
 PRELIMINARIES
 Bill No. 1
 PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

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

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

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

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

YES/NO

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

YES/NO

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

YES/NO

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

YES/NO

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

YES/NO

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

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

42.5.8 The annual holiday period after the commencement date of the **construction period**:
[29.7.2]
From:
..... to

42.6 DOCUMENTS

42.6.1 Contract documents marked and annexed hereto:

- Priced **bills of quantities:** YES/NO
Document marked as:
.....
- **Lump sum document:** YES/NO
Document marked as:
.....
- **Guarantee:** YES/NO
Document marked as:
.....
- **Contract drawings:** YES/NO
Document marked as:
.....
- **Other documents:** YES/NO
(*If "Yes", specify:)
.....

42.7 DISPUTE RESOLUTION

Not applicable/No clause

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

Carried to Collection

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

R

42.8 SIGNATURES OF THE CONTRACTING PARTIES

- This done and signed at
.....
on
.....

Name of signatory:
.....

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

.....
.....

As Witness:

.....
.....

- This done and signed at
.....
on
.....

Capacity of signatory:
.....

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

.....
.....

As Witness:

.....
.....

SECTION B: JBCC PRELIMINARIES

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

B1 DEFINITIONS AND INTERPRETATION43 **B1.1 Definitions and interpretation**Fixed: _____ Value related: _____ Time
related: _____

Item

B2 DOCUMENTS44 **B2.1 Checking of documents**Fixed: _____ Value related: _____ Time
related: _____

Item

45 **B2.2 Provisional bills of quantities**Fixed: _____ Value related: _____ Time
related: _____

Item

46 **B2.3 Availability of construction documentation**Fixed: _____ Value related: _____ Time
related: _____

Item

47 **B2.4 Interests of agents**Fixed: _____ Value related: _____ Time
related: _____

Item

48 **B2.5 Priced documents**Fixed: _____ Value related: _____ Time
related: _____

Item

49 **B2.6 Tender submission**Clause 2.6 is amended by replacing "JBCC Form of
Tender" with "PED Bid/Tender Forms 2007" as
used by the Limpopo Provincial Education
DepartmentFixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

	B3 THE SITE			
50	B3.1 Defined works area Fixed: _____ Value related: _____ Time related: _____	Item		
51	B3.2 Geotechnical investigation Fixed: _____ Value related: _____ Time related: _____	Item		
52	B3.3 Inspection of the site Tenderers shall complete the Compulsory Site Inspection Certificate (Returnable Schedule No 12) included in the tender documents and return the same with the tender submission Fixed: _____ Value related: _____ Time related: _____	Item		
53	B3.4 Existing premises occupied Fixed: _____ Value related: _____ Time related: _____	Item		
54	B3.5 Previous work - dimensional accuracy Fixed: _____ Value related: _____ Time related: _____	Item		
55	B3.6 Previous work - defects Fixed: _____ Value related: _____ Time related: _____	Item		
56	B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____	Item		
57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

58 **B3.9 Protection of trees**

Fixed: _____ Value related: _____ Time
related: _____

Item

59 **B3.10 Articles of value**

Fixed: _____ Value related: _____ Time
related: _____

Item

60 **B3.11 Inspection of adjoining properties**

Fixed: _____ Value related: _____ Time
related: _____

Item

B4 MANAGEMENT OF CONTRACT

61 **B4.1 Management of the works**

Fixed: _____ Value related: _____ Time
related: _____

Item

62 **B4.2 Programme for the works**

Fixed: _____ Value related: _____ Time
related: _____

Item

63 **B4.3 Progress meetings**

Fixed: _____ Value related: _____ Time
related: _____

Item

64 **B4.4 Technical meetings**

Fixed: _____ Value related: _____ Time
related: _____

Item

65 **B4.5 Labour and plant records**

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**B5 SAMPLES, SHOP DRAWINGS AND
MANUFACTURERS' INSTRUCTIONS**

66 **B5.1 Samples of materials**

Fixed: _____ Value related: _____ Time
related: _____

Item

67 **B5.2 Workmanship samples**

Fixed: _____ Value related: _____ Time
related: _____

Item

68 **B5.3 Shop drawings**

Fixed: _____ Value related: _____ Time
related: _____

Item

69 **B5.4 Compliance with manufacturers' instructions**

Fixed: _____ Value related: _____ Time
related: _____

Item

B6 TEMPORARY WORKS AND PLANT

70 **B6.1 Deposits and fees**

Fixed: _____ Value related: _____ Time
related: _____

Item

71 **B6.2 Enclosure of the works**

Fixed: _____ Value related: _____ Time
related: _____

Item

72 **B6.3 Advertising**

Fixed: _____ Value related: _____ Time
related: _____

Item

73 **B6.4 Plant, equipment, sheds and offices**

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Carried to Collection

**B9 ATTENDANCE ON N/S SUB-
CONTRACTORS**

82 **B9.1 General attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

83 **B9.2 Special attendance**

Fixed: _____ Value related: _____ Time
related: _____

Item

84 **B9.3 Commissioning - fuel, water and electricity**

Fixed: _____ Value related: _____ Time
related: _____

Item

B10 FINANCIAL ASPECTS

85 **B10.1 Statutory taxes, duties and levies**

Fixed: _____ Value related: _____ Time
related: _____

Item

86 **B10.2 Payment for preliminaries**

Fixed: _____ Value related: _____ Time
related: _____

Item

87 **B10.3 Adjustment of preliminaries**

Fixed: _____ Value related: _____ Time
related: _____

Item

88 **B10.4 Payment certificate cash flow**

Fixed: _____ Value related: _____ Time
related: _____

Item

B11 GENERAL

89 **B11.1 Protection of the works**

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

90 **B11.2 Protection / isolation of existing / sectionally occupied works**

Fixed: _____ Value related: _____ Time related: _____

Item

91 **B11.3 Security of the works**

Fixed: _____ Value related: _____ Time related: _____

Item

92 **B11.4 Notice before covering work**

Fixed: _____ Value related: _____ Time related: _____

Item

93 **B11.5 Disturbance**

Fixed: _____ Value related: _____ Time related: _____

Item

94 **B11.6 Environmental disturbance**

Fixed: _____ Value related: _____ Time related: _____

Item

95 **B11.7 Works cleaning and clearing**

Fixed: _____ Value related: _____ Time related: _____

Item

96 **B11.8 Vermin**

Fixed: _____ Value related: _____ Time related: _____

Item

97 **B11.9 Overhand work**

Fixed: _____ Value related: _____ Time related: _____

Item

98 **B11.10 Instruction manuals and guarantees**

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item		
100	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B12 SCHEDULE OF VARIABLES</u>			
101	B12.1 Pre-tender information <i>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries</i> <i>Spaces requiring information must be filled in, shown as not applicable or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross references clauses are italicised in [] brackets.</i> Fixed: _____ Value related: _____ Time related: _____	Item		
	12.1 PRE TENDER INFORMATION 12.1.1 Provisional Bills of Quantities [2.2] The quantities are provisional			
				NO
	12.1.2 Availability of construction documentation [2.3] Construction documentation is complete			
				YES
	12.1.3 Interest of agents [2.4] Details: See clause 42.1.2			
	12.1.4 Defined works area [3.1] Details: See clause 42.2.1			
	Carried to Collection			
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES		R	

- 12.1.5 **Geotechnical investigation**
[3.2] Details: *Geotechnical survey was done see information in the back of this document*
- 12.1.6 **Existing premises occupied**
[3.4] Specific requirements: *N.A.*
- 12.1.7 **Previous work - dimensional accuracy**
[3.5] Details: *N.A.*
- 12.1.8 **Previous work - defects**
[3.6] Details: *N.A.*
- 12.1.9 **Services - known**
[3.7] Details: *N.A.*
- 12.1.10 **Protection of trees**
[3.9] Specific requirements: *No trees to be removed without approval by client*
- 12.1.11 **Inspection of adjoining properties**
[3.11] Specific requirements: *N.A.*
- 12.1.12 **Enclosure of the works**
[6.2] Specific requirements: *N.A.*
- 12.1.13 **Offices**
[6.4.3] Specific requirements:
The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

-47-

<p>12.1.19 Ablution facilities [7.5] Option A (by contractor)</p> <p style="text-align: right;">YES</p> <p>Option B (by employer)</p> <p style="text-align: right;">NO</p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required</p> <p style="text-align: right;">NO</p> <p>12.1.21 Special attendance [9.2] Subcontractor (1) details:</p> <p>Subcontractor (2) details:</p> <p>Subcontractor (3) details:</p> <p>Subcontractor (4) details:</p> <p>12.1.22 Protection of works [11.1] Specific requirements: <i>N.A.</i></p> <p>12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</p> <p>12.1.24 Environmental disturbance [11.6] Specific requirements: <i>N.A.</i></p> <p>B12.2 POST-TENDER INFORMATION</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>		<p style="text-align: center;">R</p>	

All post-tender information for this section will be determined once tender is awarded

- 12.2.1 **Payment of preliminaries**
[10.2] Option A (prorated) YES
- Option B (calculated) NO
- 12.2.2 **Adjustment of preliminaries**
[10.3] Option A (three categories) YES
- Option B (detailed breakdown) NO
- 12.2.3 **Additional agreed preliminaries items**
Details:

SECTION C: SPECIFIC PRELIMINARIES

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

105 **C1 CONTRACT DRAWINGS**

Save for the drawings included in the "Supplementary Information" section (which is bound at the back of this document), no other drawings are issued with the tender documents. A complete set of drawings indicating the exact scope of work can be viewed, during normal office hours, at the offices of the **principal agent**.

Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**.

Fixed: _____ Value related: _____
Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Carried to Collection

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

109	<p>C5 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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
110	<p>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
111	<p>C7 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

112 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: _____ Value related: _____
Time related: _____

Item

113 **C9 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: _____ Value related: _____
Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. 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 afore-mentioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries" 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

114 C10.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____
Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

115	<p>C10.2 AWARENESS WORKSHOPS</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
116	<p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
117	<p>C10.4 ACCESS TO CONDOMS</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

118 **C10.5 MONITORING**

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

Fixed: _____ Value related: _____
Time related: _____

[Service Provider should include any other necessary Project Specific Preliminaries here]

Item

119 **C11 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations 2003, issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

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**.

The **contractor** must take note that compliance with the occupational Health and Safety Act, Construction Regulations and Health and Safety Specifications is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

Fixed: _____ Value related: _____
Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>HEALTH AND SAFETY PLAN</u>			
120	Preparation of Contractor's site specific Health and Safety Plan	Item		
121	Main Contractor obligations in respect of OHS Act Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>GENERAL OHS REQUIREMENTS</u>			
122	Personnel Protective Equipment and clothing Fixed: _____ Value related: _____ Time related: _____	Item		
123	Health and Safety Officer Fixed: _____ Value related: _____ Time related: _____	Item		
124	Medical Certificates and Surveillance Fixed: _____ Value related: _____ Time related: _____	Item		
125	Training Fixed: _____ Value related: _____ Time related: _____	Item		
126	Monitoring Fixed: _____ Value related: _____ Time related: _____	Item		
127	Noise Monitoring Fixed: _____ Value related: _____ Time related: _____	Item		
128	Signage Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

129	<p>First Aid</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
130	<p>Submission of safety file</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
131	<p>LABOUR INTENSIVE METHODS AND REQUIREMENTS</p> <p>The contractor shall comply with all the requirements set out in Code of Good Practice for Employment and Conditions of Employment Act, 1997 (Act No. 75 of 1997) and promulgated in Government Gazettes Notice no P64 of 25 January 2002.</p> <p>It is required of the Contractor to thoroughly study the Labour Intensive Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</p> <p>The contractor must take note that compliance with the Labour-Intensive method of construction, is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Labour-Intensive Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced here under and no additional claims in this regard shall be entertained.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
Carried to Collection			R	
<p>Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES</p>				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

132 **USE OF LOCAL SMME's**

It is the requirement of the client that the contractor enhances the use of local SMME's on the project, and at least 20% of the monthly construction spend is allocated to local SMME's.

The contractor is to submit details of this plan, to the principal agent, to achieve this aspect, within five working days of being requested to do so, whereafter it must be implemented.

The contractor will be formally monitored on this aspect, and must report thereon in monthly reports. All the requirements of the aforesaid, including the submission of monthly reports are to be priced hereunder. No additional items or extras in this regard will be entertained

Fixed: _____ Value related: _____
Time related: _____

Item

Carried to Collection

R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
		</	

Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
	Page No	Amount	
Brought Forward		R	
Total Brought Forward from Page No.	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		
	32		
	33		
	34		
	35		
	36		
	37		
Carried Forward		R	
Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			

Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
	Page No	Amount	
Brought Forward		R	
Total Brought Forward from Page No.	38		
	39		
	40		
	41		
	42		
	43		
	44		
	45		
	46		
	47		
	48		
	49		
	50		
	51		
	52		
	53		
	54		
	55		
Carried Forward		R	
Section No. 1			
PRELIMINARIES			
Bill No. 1			
PRELIMINARIES			

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.1</u></p> <p><u>FOUNDATIONS</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"</p> <p><u>Excavation for working space in rock</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 1</p> <p>Foundations</p>			

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 2m deep

1	Trenches	m3	2,866		
	1 : 0	2 : 0	A : 0	B : 0	
	C : 0	E : 0	G : 0	H : 0	
	I : 0	L : 0	M : 0	N : 0	
	O : 2866	X : 0			
2	Holes	m3	217		
	1 : 0	2 : 0	A : 0	B : 0	
	C : 0	E : 0	G : 0	H : 0	
	I : 0	L : 0	M : 0	N : 0	
	O : 217	X : 0			
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	287		
	1 : 0	2 : 0	A : 0	B : 0	
	C : 0	E : 0	G : 0	H : 0	
	I : 0	L : 0	M : 0	N : 0	
	O : 287	X : 0			
4	Hard rock	m3	143		
	1 : 0	2 : 0	A : 0	B : 0	
	C : 0	E : 0	G : 0	H : 0	
	I : 0	L : 0	M : 0	N : 0	
	O : 143	X : 0			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	1,977		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1977 X : 0				
<u>Risk of collapse of excavations</u>					
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	8,315		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 8315 X : 0				
<u>Keeping excavations free of water</u>					
7	Keeping excavations free of all water other than subterranean water		Item		
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>					
8	Backfilling to trenches, holes, etc	m3	1,228		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1228 X : 0				
9	Under floors, steps, paving etc.	m3	2,673		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2673 X : 0				
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 1 Foundations					

Compaction of surfaces

10	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 93% Mod AASHTO density	m2	4,663		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4663 X : 0				

Prescribed density tests on filling

11	"Modified AASHTO Density" test	No	70		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 70 X : 0				

SOIL POISONING

All soil poisoning and insecticide to be applied under a *five year* guarantee by an approved firm of Specialists. Soil insecticides shall comply with *SABS Specification 1165*. Work shall be carried out in accordance with "The application of soil insecticides for the protection of buildings" - *SABS Code of Practice 0124*

Casting of concrete floors to start within 24 hours after the application of soil poisoning

Pest control applicators must provide :

1. Proof of pesticides and insecticides (data sheets)
2. Toxicants must be registered with the Departement of Agriculture
2. Proof that they are qualified to perform the work
3. Five year guarantee certificate

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

Soil insecticide

12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	4,663		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4663 X : 0				

13	To bottoms and sides of trenches etc	m2	9,817		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 9817 X : 0				

CONCRETE, FORMWORK AND REINFORCEMENT

UNREINFORCED CONCRETE

15MPa/19mm concrete

14	Surface blinding under footings and bases	m3	47		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 47 X : 0				

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa/19mm concrete

15	Strip footings	m3	585		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 585 X : 0				

16	Column bases	m3	217		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 217 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

ROUGH FORMWORK (DEGREE OF ACCURACY)

Fabric reinforcement

17	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	4,663				
	1 : 0 2 : 0 A : 0 B : 0						
	C : 0 E : 0 G : 0 H : 0						
	I : 0 L : 0 M : 0 N : 0						
	O : 4663 X : 0						

TEST CUBES

18	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	72.0				
	1 : 0.0 2 : 0.0 A : 0.0 B : 0.0						
	C : 0.0 E : 0.0 G : 0.0 H : 0.0						
	I : 0.0 L : 0.0 M : 0.0 N : 0.0						
	O : 72.0 X : 0.0						

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Rough formwork to sides

19	Bases	m2	575				
	1 : 0 2 : 0 A : 0 B : 0						
	C : 0 E : 0 G : 0 H : 0						
	I : 0 L : 0 M : 0 N : 0						
	O : 575 X : 0						

MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete surfaces

20	10mm Joints exceeding 300mm high	m2	468				
	1 : 0 2 : 0 A : 0 B : 0						
	C : 0 E : 0 G : 0 H : 0						
	I : 0 L : 0 M : 0 N : 0						
	O : 468 X : 0						

REINFORCEMENT

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

Mild steel reinforcement to structural concrete work

21	8mm Diameter bars	t	7.04		
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00				
	C : 0.00 E : 0.00 G : 0.00 H : 0.00				
	I : 0.00 L : 0.00 M : 0.00 N : 0.00				
	O : 7.04 X : 0.00				

22	10mm Diameter bars	t	1.09		
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00				
	C : 0.00 E : 0.00 G : 0.00 H : 0.00				
	I : 0.00 L : 0.00 M : 0.00 N : 0.00				
	O : 1.09 X : 0.00				

High tensile steel reinforcement to structural concrete work

23	10mm Diameter bars	t	6.58		
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00				
	C : 0.00 E : 0.00 G : 0.00 H : 0.00				
	I : 0.00 L : 0.00 M : 0.00 N : 0.00				
	O : 6.58 X : 0.00				

24	16mm Diameter bars	t	9.23		
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00				
	C : 0.00 E : 0.00 G : 0.00 H : 0.00				
	I : 0.00 L : 0.00 M : 0.00 N : 0.00				
	O : 9.23 X : 0.00				

BRICKWORK

Brickwork of "Corobrik Imperial NFXE" or similar approved 20Mpa nominal compressive strength bricks in class II mortar

25	Half brick walls	m2	476		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 476 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

R

26	One brick walls	m2	3,107		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 3107 X : 0				
	<u>BRICKWORK SUNDRIES</u>				
	<u>Joint forming material in movement joints:</u>				
27	12mm Fibre board built in vertically between brick skins.	m2	935		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 935 X : 0				
	<u>Brickwork reinforcement</u>				
28	75mm wide reinforcement built in horizontally.	m	1,404		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1404 X : 0				
29	150mm Wide reinforcement built in horizontally	m	9,166		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 9166 X : 0				
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints</u>				
30	Extra over brickwork for face brickwork	m2	2,099		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2099 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 1
Foundations

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

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

Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

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"

UNREINFORCED CONCRETE**20MPa/19mm concrete**

1	Surface beds cast in panels on waterproofing.	m3	699
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 699 X : 0		

Carried to Collection**R**

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

2	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	1,974		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1974 X : 0				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
3	Slabs including beams and inverted beams	m3	7		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 7 X : 0				
4	Stairs including steps, landings, beams and inverted beams.	m3	76		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 76				
	<u>30MPa/19mm concrete</u>				
5	Slabs including beams and inverted beams	m3	445		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 445 X : 0				
6	Columns	m3	64		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 64 X : 0				
7	Ramps on waterproofing	m3	41		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 41 X : 0				
	Carried to Collection			R	
	Section No. 2				
	BUILDING WORKS				
	Bill No. 2				
	Concrete, Formwork and Reinforcement				

8	Plinths.	m3	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
9	Surface beds, slabs, etc	m2	1,621		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1621 X : 0				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
10	Surface beds, slabs, etc	m2	4,662		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4662 X : 0				
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>Smooth formwork to sides</u>				
11	Rectangular columns	m2	62		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 62 X : 0				
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement				R	

Smooth formwork to soffits not exceeding 3.5m high

12	Slabs exceeding 250mm thick and not exceeding 500mm thick	m2	935		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 935 X : 0				

13	Sloping soffit of stairs.	m2	37		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 37				

Smooth formwork to sides and soffits

14	Beams not exceeding 3.5m above bearing level	m2	1,936		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1936 X : 0				

Smooth Formwork To Sides, Edges, Risers, Etc.

15	Sloping edge of stairs not exceeding 450mm high.	m	88		
	1 : 0 2 : 0 A : 88 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				

16	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	1,199		
	1 : 0 2 : 0 A : 1199 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

TEST CUBES

17	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	105.0		
	1 : 0.0 2 : 0.0 A : 0.0 B : 0.0				
	C : 0.0 E : 0.0 G : 0.0 H : 0.0				
	I : 0.0 L : 0.0 M : 0.0 N : 0.0				
	O : 105.0 X : 0.0				

MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces

18	15mm Joints exceeding 300mm high (Provisional)	m	476		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 476 X : 0				

Saw cut joints

19	Saw cut joints in top of concrete (Provisional)	m	476		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 476 X : 0				

DIVIDING STRIPS, ETC.

20	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors	m	87		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 87 X : 0				

REINFORCEMENT

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**High tensile steel reinforcement to structural
concrete work**

21	32mm Diameter bars	t	1.25						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 1.25 X : 0.00								
22	25mm Diameter bars	t	29.50						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 29.50 X : 0.00								
23	20mm Diameter bars	t	2.67						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 2.67 X : 0.00								
24	16mm Diameter bars	t	7.85						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 7.85 X : 0.00								
25	12mm Diameter bars	t	25.20						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 25.20 X : 0.00								
26	10mm Diameter bars	t	4.97						
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00								
	C : 0.00 E : 0.00 G : 0.00 H : 0.00								
	I : 0.00 L : 0.00 M : 0.00 N : 0.00								
	O : 4.97 X : 0.00								

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Mild steel reinforcement to structural concrete work

27	8mm Diameter bars	t	0.08						
	1 : 0.00	2 : 0.00	A : 0.00	B : 0.00					
	C : 0.00	E : 0.00	G : 0.00	H : 0.00					
	I : 0.00	L : 0.00	M : 0.00	N : 0.00					
	O : 0.08	X : 0.00							
28	10mm Diameter bars	t	11.61						
	1 : 0.00	2 : 0.00	A : 0.00	B : 0.00					
	C : 0.00	E : 0.00	G : 0.00	H : 0.00					
	I : 0.00	L : 0.00	M : 0.00	N : 0.00					
	O : 11.61	X : 0.00							

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 2
Concrete, Formwork and Reinforcement

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Linings to concrete</u></p> <p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>Reinforced brick lintels</u></p> <p>Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 3</p> <p>Masonry</p>			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Face bricks

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

Pointing

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

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

General

Window surrounds shall be built into brick walls and pointed all round on both sides with 10 x 10mm square recessed joints

Prices shall include for building in as single units or combinations in patterns of two or more window units and for bedding solid all round in mortar and pointing

Note

Aluminium infill windows, glazing and pointing with sealing compound are measured elsewhere

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	Piers	m3	18
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 18 X : 0		
2	L-shaped piers	m3	12
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 12 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

3	Half brick walls	m2	1,480		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1480 X : 0				
4	One brick walls in beamfilling.	m2	1,149		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1149 X : 0				
5	One brick walls	m2	7,930		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 7930 X : 0				
	<u>Joint forming material in movement joints:</u>				
6	12mm Bitumen impregnated fibre board built in vertically between brick skins not exceeding 300mm wide.	m2	935		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 935 X : 0				
	<u>Brickwork reinforcement</u>				
7	75mm Wide reinforcement built in horizontally	m	4,499		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4499 X : 0				
8	150mm Wide reinforcement built in horizontally	m	23,394		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 23394 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

Turning pieces

9	230mm Wide turning piece to lintels etc	m	373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 373 X : 0				

"Allied Concrete" prestressed fabricated lintels

10	110 x 75mm Lintels in lengths not exceeding 3m (Provisional)	m	187		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 187 X : 0				

11	110 x 75mm lintels in lengths exceeding 3m and not exceeding 4,5m.	m	117		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 117 X : 0				

12	110 x 75mm lintels in lengths exceeding 4,5m and not exceeding 6m.	m	69		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 69 X : 0				

Galvanised wire ties etc

13	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)	No	571		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 571 X : 0				

FACE BRICKWORK

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

14	Extra over brickwork for face brickwork	m2	8,980						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 8980 X : 0								
15	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	117						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 117 X : 0								
16	Extra over for facings in beamfilling for face brickwork	m2	526						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 526 X : 0								
17	Fair cutting and fitting around pipe not exceeding 100mm diameter (Provisional)	No	201						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 201 X : 0								
18	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	90						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 90 X : 0								
19	Fair raking cutting	m	79						
	1 : 0 2 : 0 A : 0 B : 0								
	C : 0 E : 0 G : 0 H : 0								
	I : 0 L : 0 M : 0 N : 0								
	O : 79 X : 0								

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**Brick-on-edge header course copings, sills, etc of
face bricks (Purchase price R7 500,00 / 1000 VAT
excl. delivered to site) pointed with recessed joints
on all exposed faces**

20	Extra over brickwork for brick-on-edge header course lintel	m	373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 373 X : 0				

**Brick-on-edge header course copings, sills, etc of
face bricks(Purchase price of R7 500,00/1000 VAT
excl. delivered to site) pointed with recessed joints
on all exposed faces**

21	220mm Wide sill set sloping and slightly protecting outside	m	373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 373 X : 0				

22	Coping on top of one brick wall	m	478		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 478 X : 0				

**NUTEC-CEMENT/FIBRE-CEMENT WINDOW
SILLS**

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.

23	15mm x 150mm Wide sills set flat and slightly projecting	m	373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 373 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 3
Masonry

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	429	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 429 X : 0			
	Carried to Collection			R
	Section No. 2 BUILDING WORKS Bill No. 4 Waterproofing			

	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
2	Under surface beds	m2	4,662		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4662 X : 0				
	<u>JOINT SEALANTS ETC</u>				
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>				
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary (Provisional)	m	103		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 103 X : 0				
	<u>"Bostic" silicone sealing compound including primer, etc</u>				
4	10mm In joints between ceramic lavatory basin and glazed wall tiles	m	88		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 88 X : 0				
	Carried to Collection				
	Section No. 2				
	BUILDING WORKS				
	Bill No. 4				
	Waterproofing				
				R	

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.5</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p>Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use</p> <p><u>Sizes</u></p> <p>All items are measured net unless otherwise described</p> <p><u>Flashings, trimming plates, etc.</u></p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable</p> <p>All items are unless otherwise described measured net</p> <p><u>PROFIED METAL SHEETING AND ACCESSORIES</u></p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 5</p> <p>Roof Coveringss, etc</p>			

0,55mm "Global Roofing Solutions 700mm cover Klip-Tite" galvanised troughed sheeting steel Z200 spelter ISQ 550 "Chromadek - Traffic Green" finish on one side, topcoat and pebble grey backing coat roof sheeting in single lengths fixed to 76 x 50mm purlins or rails and 0,55mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions

1	Roof covering with pitch not exceeding 50 degrees	m2	6,061		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6061 X : 0				
2	Ridge capping 550mm girth	m	1,618		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1618 X : 0				
3	Hip capping 550mm girth	m	476		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 476 X : 0				
4	Gable trim 550mm girth	m	259		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 259 X : 0				
5	Side claddings	m2	78		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 78 X : 0				

STEEL LOUVRES

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coveringss, etc

"NTY Steelworks" or similar approved

6	Triangular steel louvre size 1600x 600mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				
7	Triangular steel louvre size 2500x 600mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				
8	Triangular steel louvre size 3200x 600mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 12 X : 0				
9	Triangular steel louvre size 5000x 600mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				

ROOF VENTILATORS

10	Standard 30mm Diam convection rotating ventilators with flashing at roof sheet junction including necessary sealing strips, fixing accessories, etc	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				

ROOF AND WALL INSULATION

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coverings, etc

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**"Alucushion Bubblefold" double-sided aluminium
foil faced insulation installed strictly as per
manufacturer's instruction**

11 70mm Thick insulation boards fixed concurrent with roof
covering etc.

m2

6,061

1 : 0 2 : 0 A : 0 B : 0

C : 0 E : 0 G : 0 H : 0

I : 0 L : 0 M : 0 N : 0

O : 6061 X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 5
Roof Coveringss, etc

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 6</p> <p>Capentry and Joinery</p>			

PREFABRICATED ROOF TRUSSES**Pre-fabricated metal connected timber roof trusses**

All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction

Timber

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460

Bolts

Bolts shall be in accordance with BS 4190 or SABS 135

Shear plates, tooth connectors and split rings

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

Washers

Square or round washers of the following dimensions shall be used with all bolts:

- 1 Bolts up to 8mm diameter:
Washers shall be minimum 25mm wide of minimum 2,50mm thickness
- 2 Bolts up to 12mm diameter:
Washers shall be minimum 36mm wide of minimum 4,00mm thickness
- 3 Bolts up to 20mm diameter:
Washers shall be minimum 60mm wide of minimum 5,00mm thickness

Metal connector plates

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanising as per SABS 934 before stamping

All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report

Truss construction

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint

Truss design

All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")

Truss spacing

The truss centres shall be less than or equal to that as described in this bill for each respective truss

Truss pitch

The truss pitch shall be as described in this bill for each respective truss type

Truss loading

Trusses shall be designed for a live load of 0,50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses"

Shop drawings, design and erection guarantee certificates

It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

Dimensions

All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences

Erection

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer

Design system

The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system

However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent

Specific specifications for roof trusses

Unless otherwise described, the following specifications will apply:

- 1 All trusses to be with a 10° pitch
- 2 The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres

ROOFS

The following in plate nailed timber roof truss construction

The following is applicable in respect of roof trusses

The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes

Carried to Collection

R

Section No. 2
 BUILDING WORKS
 Bill No. 6
 Capentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)

Allow for the preparation and submission of the following documents in respect of all buildings

- | | | |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication | Item |
| 2 | Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc. | Item |
| 3 | Erection guarantee certificate after the whole completed roof trusses structures have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent | Item |

Sawn softwood

- | | | | | | | | | | | | | | | | | | | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 4 | Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for administration block approximately 420m2 on plan (Refer to architect's drawings attached to these bills of quantities) | No | 1 | | | | | | | | | | | | | | | | |
| | <table border="0"> <tr> <td>1 : 0</td> <td>2 : 0</td> <td>A : 0</td> <td>B : 0</td> </tr> <tr> <td>C : 0</td> <td>E : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>L : 0</td> <td>M : 0</td> <td>N : 0</td> </tr> <tr> <td>O : 1</td> <td>X : 0</td> <td></td> <td></td> </tr> </table> | 1 : 0 | 2 : 0 | A : 0 | B : 0 | C : 0 | E : 0 | G : 0 | H : 0 | I : 0 | L : 0 | M : 0 | N : 0 | O : 1 | X : 0 | | | | |
| 1 : 0 | 2 : 0 | A : 0 | B : 0 | | | | | | | | | | | | | | | | |
| C : 0 | E : 0 | G : 0 | H : 0 | | | | | | | | | | | | | | | | |
| I : 0 | L : 0 | M : 0 | N : 0 | | | | | | | | | | | | | | | | |
| O : 1 | X : 0 | | | | | | | | | | | | | | | | | | |
| 5 | Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for classroom and ablution block approximately 663m2 on plan (Refer to architect's drawings attached to these bills of quantities) | No | 3 | | | | | | | | | | | | | | | | |
| | <table border="0"> <tr> <td>1 : 0</td> <td>2 : 0</td> <td>A : 0</td> <td>B : 0</td> </tr> <tr> <td>C : 0</td> <td>E : 0</td> <td>G : 0</td> <td>H : 0</td> </tr> <tr> <td>I : 0</td> <td>L : 0</td> <td>M : 0</td> <td>N : 0</td> </tr> <tr> <td>O : 3</td> <td>X : 0</td> <td></td> <td></td> </tr> </table> | 1 : 0 | 2 : 0 | A : 0 | B : 0 | C : 0 | E : 0 | G : 0 | H : 0 | I : 0 | L : 0 | M : 0 | N : 0 | O : 3 | X : 0 | | | | |
| 1 : 0 | 2 : 0 | A : 0 | B : 0 | | | | | | | | | | | | | | | | |
| C : 0 | E : 0 | G : 0 | H : 0 | | | | | | | | | | | | | | | | |
| I : 0 | L : 0 | M : 0 | N : 0 | | | | | | | | | | | | | | | | |
| O : 3 | X : 0 | | | | | | | | | | | | | | | | | | |

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

6	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for nutritional block approximately 184m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		
7	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for multi purpose classroom block approximately 98m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 1		
8	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for Science & Life Science block approximately 381m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 1		
9	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, rafters etc. for Computer & Library block approximately 381m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

10	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for Gate House approximately 19m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		
	<u>SUNDRY ROOF TIMBERS</u>		
	<u>Sawn softwood grade 4</u>		
11	38 x 114mm Wall plates	m	1,618
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1618 X : 0		
12	50 x 220mm Timber Beam	m	146
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 146 X : 0		
	<u>Roof Sundries</u>		
	<u>Sundries</u>		
13	"Hurricane clip" between truss and purlins (Provisional)	No	1,234
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1234 X : 0		
14	Two coats wood preservative applied hot on sawn or wrot timbers before fixing	m2	4,662
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 4662 X : 0		

EAVES, VERGES, ETC

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

	<u>"Everite FC77" pressed fibre-cement</u>				
15	15 x 250mm Fascia and Barge boards including galvanised steel H-profile jointing strips	m	2,096		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2096 X : 0				
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
16	19 x 76mm Skirting including 19mm quadrant bead nailed	m	4,244		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4244 X : 0				
17	19 x 70mm Cornice nailed	m	4,099		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4099 X : 0				
	<u>DOORS, ETC</u>				
	<u>Wrought meranti doors hung to steel frames:</u>				
	<u>40mm Meranti framed batten door (Exposure Class 1), with 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm thick V-jointed one side boarding and covered at back with 4mm plywood with veneer to match door, let into and including rebates all round.</u>				
18	Single Door Type D01 size 914 x 2032mm high	No	47		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 47 X : 0				
	Carried to Collection			R	
	Section No. 2				
	BUILDING WORKS				
	Bill No. 6				
	Capentry and Joinery				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**40mm Thick Supawood Single Full Height MDF
(Medium Duty Fibre) interior doors with 300mm High
Aluminium Door Grill**

19	Single Door Type D02 930 x 2032mm high	No	25		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 25 X : 0				

**40mm Thick Solid Meranti Framed, ledged and
braced batten door leafs with veneer on inside face
suitable for painting or varnishing as per finishing
schedule. With rebated meeting styles.**

20	Single Door Type D04 900 x 2032mm high	No	16		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 16 X : 0				

21	Single Door Type D04 size 900 x 2032mm high	No	16		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 16 X : 0				

22	Double Door Type D02 size 1580 x 2415mm high	No	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 8 X : 0				

23	Double Door Type D03 size 1590 x 2140mm high	No	7		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 7 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>'Bitcon' or similar approved 2mm thick GMS (Coastal) or MS (Inland) pressed steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 230mm Fire Wall.</u>				
24	"Bitcon" Class B Fire Door Single Door and Frame Type DF52G size 1590 x 2140mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 12 X : 0	No	12		
	<u>SUNDRIES</u>				
25	Cut opening in 400mm solid door for louvre opening 400 x 300mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 16 X : 0	No	16		
	<u>FOLDING DOORS</u>				
	<u>Folding doors including frames, approved sliding gear, ironmongery, etc with combination security gate finished to match the existing:</u>				
26	Door 5335 x 2424mm high fixed to brickwork or concrete 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 3 X : 0	No	3		
	Carried to Collection				
	Section No. 2 BUILDING WORKS Bill No. 6 Carpentry and Joinery				R

FITTINGS

Interior carcasses, shelves, bottoms, etc to be 16mm thick interior grade particle board with white "Melamine" decorative laminate to all exposed surfaces. All exposed edges to be fitted with 3.2mm thick white "Masonite" edge strips. Carcasses to be fitted at back with 6mm thick white "Masonite" backing.

All exposed carcasses, sides, etc to be 16mm thick interior grade particle board with "Vancouver Maple Melamine" decorative laminate to all exposed surfaces. All exposed edges to be fitted with 3.2mm thick "Vancouver Maple Masonite" edge strips.

Kickplates to be 16mm thick interior grade particle board with "Supawood Renolite" decorative laminate to all exposed surfaces.

Doors to be 16mm thick interior grade particle board with two long postformed vertical edges with "Supawood or Melamine Renolite" decorative laminate on all surfaces.

Floor units to be supplied and installed complete with tops and kickplates

Tops of floor units to be 32mm thick particle board with one long postformed leading edge and laminated with 1mm "Vancouver Maple Formica" high pressure decorative laminate. Tops for floor units have been measured seperately

All butt edges and edges against walls to be sealed with silicone sealant. Hinges to be "Hettich" type and drawer runners to be of 500mm long metal type "FR602" with nylon runners and minimum 100 000 cycle test guarantee quality and load capacity of of 30kg. All units to supplied and installed complete with approved handles, hinges and other ironmongery.

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

The following joinery fittings have been measured as complete units, i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc

27	Type FU-900 Mahogany Floor cupboard size 900mm long x 570mm wide x 900mm high overall, including cut-out for sink (Sink elsewhere measured).	No	4
	<div>1 : 0 2 : 0 A : 0 B : 0</div> <div>C : 0 E : 0 G : 0 H : 0</div> <div>I : 0 L : 0 M : 0 N : 0</div> <div>O : 0 X : 4</div>		
28	Type FU-900 Mahogany Under counter double cupboard size 900mm long x 570mm wide x 900mm high overall,	No	4
	<div>1 : 0 2 : 0 A : 0 B : 0</div> <div>C : 0 E : 0 G : 0 H : 0</div> <div>I : 0 L : 0 M : 0 N : 0</div> <div>O : 0 X : 4</div>		
29	Type W-600 Mahogany wall cupboard size 600mm long x 570mm wide x 600mm high overall,	No	4
	<div>1 : 0 2 : 0 A : 0 B : 0</div> <div>C : 0 E : 0 G : 0 H : 0</div> <div>I : 0 L : 0 M : 0 N : 0</div> <div>O : 0 X : 4</div>		
30	Type W-900 Mahogany wall cupboard size 900mm long x 300mm wide x 730mm high overall,	No	4
	<div>1 : 0 2 : 0 A : 0 B : 0</div> <div>C : 0 E : 0 G : 0 H : 0</div> <div>I : 0 L : 0 M : 0 N : 0</div> <div>O : 0 X : 4</div>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

31	Type FD-450 Mahogany Floor Drawer cupboard size 450mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 4	No	4		
32	Type FU-450 Mahogany Floor cupboard size 450mm long x 570mm wide x 900mm high overall, 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 4	No	4		
33	Shelving unit type size 5989mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 8	No	8		
34	Shelving unit type size 4015mm long x 450mm wide x 2100mm high overall, of 5 rows of standard 450mm deep white epoxy powder coated with steel wall band brackets and wall bands positioned as per Architect specification 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 4	No	4		
35	Slatted Benches made up of 38 x 38 x 5mm galvanised angle iron sections and bracing at 500mm cc max, bolted to wall with 3 x 100mm long expanding bolts, size 3500mm long x 415mm wide x 400mm high overall and apply two coats polyurethane varnish on timber members and apply undercoat & two coats of gloss enamel on steel members 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 4	No	4		
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 6 Capentry and Joinery					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

36	Slatted Benches made up of 38 x 38 x 5mm galvanised angle iron sections and bracing at 500mm cc max, bolted to wall with 3 x 100mm long expanding bolts, size 1200mm long x 415mm wide x 400mm high overall and apply two coats polyurethane varnish on timber members and apply undercoat & two coats of gloss enamel on steel members	No	2
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 2		
	<u>FURNITURE</u>		
37	Steel frame single bed 910 x 1910 x 770mm high	No	1
	1 : 0 2 : 1 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 0		
38	Foam sponge mattress with stitch-bond PVC cover 910 x 1910 x 150mm thick	No	1
	1 : 0 2 : 1 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 0		
39	Sick room upholstered stackable steel frame chair with timber arm rests 501 x 571 x 870mm high.	No	1
	1 : 0 2 : 1 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 0		
40	46 Litre flip-top polypropylene dust bin	No	1
	1 : 0 2 : 1 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

41	MK 1 Lockable medicine cabinet 315 x 110 x 360mm high	No	1		
	1 : 0 2 : 1 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
42	Science Laboratory Storeroom Cupboard overall size 2140mm long x 900mm high x 550mm wide, including all finishes	No	2		
	1 : 0 2 : 2 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
43	Science laboratory polypropylene stackable chair 300mm diameter x 460mm high	No	40		
	1 : 0 2 : 40 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
44	Library bookshelf 1000 x 400 x 1435mm high.	No	45		
	1 : 0 2 : 45 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
45	Teacher's classroom desk 1611 x 950 x 750mm high with two drawers	No	38		
	1 : 0 2 : 38 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
46	Teacher's upholstered stackable steel frame chair 501 x 570 x 870mm high	No	38		
	1 : 0 2 : 38 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 0				
Carried to Collection				R	
Section No. 2					
BUILDING WORKS					
Bill No. 6					
Capentry and Joinery					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

47	Pigeon hole filling rack 890 x 400 x 1435mm high 1 : 0 2 : 4 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 0	No	4		
48	Senior double school desk sealed and varnished 16mm thick supawood/saligna top, mounted on a powder coated round tubing size 1200mm x 450mm x 750mm high 1 : 0 2 : 1200 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 0	No	1,200		
49	Polypropylene stackable chair 445 x 381 x 715mm high 1 : 0 2 : 2400 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 0	No	2,400		
50	Office Desk size 1600 x 900 x 750mm high with three lockable drawers 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 12	No	12		
51	Office Desk size 1600 x 900 x 750mm high with no drawers 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 18	No	18		
52	Connecting corner size 900 x 500mm 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 4	No	4		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Capentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

53	Credenza with sliding door size 1000 x 500 x 750mm high	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
54	4 Seater executive round meeting table	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
55	Boardroom table size 4400mm long x 1500mm wide x 900mm high overall.	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
56	High back swivel and tilt chair with 5-star base, gas height adjustment	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				
57	Low back swivel and tilt chair with armrest skid base	No	18		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 18				
58	Economy upholstered side chair with arms	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

59	Visitors chairs with low back sleigh base	No	20		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 20				
60	Stationery cupboards size 1000 x 500 x 1500mm high with two doors and 3 shelves	No	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				
61	Two seater Square Couch, complete with square leg detail and upholstered with dark leather, or equally approved. (Photo 40)	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
62	'Balboa' style two (2) seater coach 2300mm long with turnstyle wood fram feet and 'Milano/Savannah' leather upholstery, or equal and approved. (Photo 11)	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
63	Refrigerator size 850 x 600 x 600mm deep with 150 litre capacity, with and including glass doors in aluminium frames, automatic defrost, right hand door hinge, height adjustable front feet, eight (8) adjustable and removable racks, infinitely adjustable variable temperture control, fridge light, etc. for 80W electrical capacity.	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
Carried to Collection					R
Section No. 2					
BUILDING WORKS					
Bill No. 6					
Capentry and Joinery					

MS Milan Public Seating System 5 Seater with end arms and three legs

- 64 MILAN steel seating range heavy duty for high volume public traffic areas. Chair with one piece seat shell in 2mm thick perforated stainless steel grade 430 brushed finish, supported by a full framework in 6mm thick laser cut mild steel, complete with round cross bars in stainless steel. Chairs mounted on a steel tubular beam with 3mm wall thickness. Leg pieces on extreme ends of unit in 10mm laser cut mild steel with rubber adjustable ferrels to be free standing or fixed to floor. Unit complete with two end arms in grade 304 stainless steel at extreme ends of unit. All sub-frame mild steel components E-coated and epoxy powder coated colour silver grey.

No

2

1 : 0 2 : 0 A : 0 B : 0
 C : 0 E : 0 G : 0 H : 0
 I : 0 L : 0 M : 0 N : 0
 O : 0 X : 2

COUNTER AND VANITY TOPS**32mm Thick Formica worktop fixed in position with and including all fixing brackets, screws, jointing, pointing, silicone sealing around edges, etc.**

- 65 PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 4500mm long x 650mm wide overall.

No

22

1 : 0 2 : 0 A : 0 B : 0
 C : 0 E : 0 G : 0 H : 0
 I : 0 L : 0 M : 0 N : 0
 O : 0 X : 22

- 66 PG bison 32mm thick Formica Lifeseal counter in Vancouver Maple with grey high impact edges units size 1900mm long x 650mm wide overall.

No

16

1 : 0 2 : 0 A : 0 B : 0
 C : 0 E : 0 G : 0 H : 0
 I : 0 L : 0 M : 0 N : 0
 O : 0 X : 16

Carried to Collection

R

Section No. 2
 BUILDING WORKS
 Bill No. 6
 Carpentry and Joinery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>32mm Thick "Rustenberg Granite chamfered on all exposed edges and polished on all exposed surfaces and edges, fixed in position with and including all fixing brackets, screws, jointing, pointing, silicone sealing around edges, etc.</u>				
67	Counter top, 600mm wide provided in single lengths to form required shape with and including cut outs to sizes to fit wash hand basin and in positions as indicated on the drawings, <div> <div>1 : 0</div> <div>2 : 0</div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>E : 0</div> <div>G : 0</div> <div>H : 0</div> <div>I : 0</div> <div>L : 0</div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>X : 27</div> </div>	m	27		
68	L-Shaped Counter top, 600mm wide provided in single lengths fixed in positions as indicated on the drawings, <div> <div>1 : 0</div> <div>2 : 0</div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>E : 0</div> <div>G : 0</div> <div>H : 0</div> <div>I : 0</div> <div>L : 0</div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>X : 32</div> </div>	m	32		
69	200mm High Splash back fixed to brick wall <div> <div>1 : 0</div> <div>2 : 0</div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>E : 0</div> <div>G : 0</div> <div>H : 0</div> <div>I : 0</div> <div>L : 0</div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>X : 49</div> </div>	m	49		
70	60mm Diameter Stainless steel tubing support, 900mm long <div> <div>1 : 0</div> <div>2 : 0</div> <div>A : 0</div> <div>B : 0</div> <div>C : 0</div> <div>E : 0</div> <div>G : 0</div> <div>H : 0</div> <div>I : 0</div> <div>L : 0</div> <div>M : 0</div> <div>N : 0</div> <div>O : 0</div> <div>X : 69</div> </div>	No	69		
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 6 Carpentry and Joinery				R	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

- 71 Mild steel brackets 548 x 225mm high overall, comprising of horizontal member 50 x 50 x 3mm angle iron 548mm long, two vertical members 50 x 50 x 3mm angle iron 225mm long and 100mm long respectively and with diagonal member formed of 50 x 3mm steel flat plate 547mm long, with and including all mitred edges, welding, etc. and vertical member twice holed for and including 8mm diameter expansion anchor bolts bolted to brick wall in position

No

69

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 69

- 72 Cut through 32mm thick granite counter top to form opening not exceeding 300mm diameter or width.

No

34

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 34

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 6
Carpentry and Joinery

[illegible]

[illegible]

-120-

	<u>Sawn softwood</u>				
2	38 x 114mm Ceiling joists (Provisional)	m	797		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 797 X : 0				
	<u>"Rhino" gypsum plasterboard cornices</u>				
3	75mm Coved cornices	m	1,618		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1618 X : 0				
	<u>SUSPENDED GRID CEILINGS</u>				
	<u>600 x 1200 x 12.5mm Thick Gyprex fissured vinyl clad ceiling tiles laid on and including donn T-section inlay exposed Tee suspension ceiling system including galvanised T38 main tees, T25 cross tees, hold-down clips, wedges, etc, all suspended with galvanised hangers at centres not exceeding 1200mm</u>				
4	Horizontal ceilings suspended 1m-2m below steel soffits	m2	1,456		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1456 X : 0				
5	Extra over ceilings for opening for 150mm diameter downlighter (Provisional)	No	32		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 32 X : 0				
6	Extra over ceilings for opening for 1200 x 600mm light fitting (Provisional)	No	24		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 24 X : 0				
	Carried to Collection			R	
	Section No. 2				
	BUILDING WORKS				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

600 x 600 x 15mmThick "Dune Supreme" acoustic ceiling tiles laid on and including donn T-section inlay exposed tee suspension ceiling system including galvanised T38 main tees, T25 cross tees, hold-down clips, wedges, etc., all suspended with galvanised hangers at centres not exceeding 1200mm

7 Horizontal ceilings suspended 1m-2m below steel soffits m2 165

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 165

8 Extra over ceilings for opening for 150mm diameter downlighter (Provisional) No 12

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 12 X : 0

9 Extra over ceilings for opening for 1200 x 600mm light fitting (Provisional) No 8

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 8 X : 0

NAILED UP AND SCREWED UP CEILINGS

6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints

10 Ceilings including 38 x 38mm branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. m2 3,031

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 3031 X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 7
Ceilings, Partitions and Access Flooring

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

11	Sloping ceilings including 38 x 38mm sawn softwood brandering at 450mm centres	m2	173		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 173 X : 0				
	<u>"Donn" cornices to suspended ceilings</u>				
12	"SM25" pre-painted cornices, nailed to walls	m	280		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 280 X : 0				
	<u>ALUMINIUM LOCKABLE TRAPDOORS (PROVISIONAL)</u>				
	<u>Summit Or Other Approved Lockable White Powder Coated Aluminium Trap Door Complete And Installed As Per Manufacturer's Instructions And Specifications</u>				
13	Trap door size 600 x 600mm.	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 7
Ceilings, Partitions and Access Flooring

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.8</u></p> <p><u>IRONMONGERY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p>			
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

RACK AND PINION DOOR CLOSER

1 Silver TS73V DC PA - SL

Dormakaba EN 2-4 Rack and pinion door closer with standard NON HOLD OPEN scissor arm and parallel arm bracket. EN1154, certified to ISO 9001. Hydraulic speed control, backcheck and DELAYED ACTION. Standard push side fixing. EN2 suitable for door width 750-850mm, EN3 suitable for door width 850-950mm, EN4 suitable for door width 950 -1100mm. Fire rated. Approved to AS1905 Part 1.

Sets

14.0

1 : 0.0	2 : 0.0	A : 0.0	B : 0.0
C : 0.0	E : 0.0	G : 0.0	H : 0.0
I : 14.0	L : 0.0	M : 0.0	N : 0.0
O : 0.0	X : 0.0		

CAM ACTION DOOR CLOSER

2 Silver TS90 - SL

Dormakaba EN 3/4 Cam action door closer with standard NON HOLD OPEN slide channel arm. EN1154, certified to ISO 9001. Hydraulic speed control and back check. Standard pull side fixing, transom push side fixing. EN3 suitable for door width 850-950mm, EN4 suitable for door width 950-1100mm. Fire rated: CERTI
FIRE approved (CF 119) for door types ITT 120, MM/IMM 240. (Not certified on push face).

No

17

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 17	L : 0	M : 0	N : 0
O : 0	X : 0		

DOOR HANDLES

3 Satin Chrome -CB30 Cyl S.C

Dormakaba Lever handle on plate with Cylinder cut out.

Sets

80.0

1 : 0.0	2 : 0.0	A : 0.0	B : 0.0
C : 0.0	E : 0.0	G : 0.0	H : 0.0
I : 80.0	L : 0.0	M : 0.0	N : 0.0
O : 0.0	X : 0.0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

4	430 Brushed Stainless Steel- DHP-430-BL-SF Dormakaba DPH301C Pull Handle BT fixed on a 150x300x1.2mm thick Grade 430 stainless steel plate with no cylinder cut out. Stainless Steel Plate to have 6 countersunk holes for screw fixing.(Special Order)	No	17		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 17 L : 0 M : 0 N : 0 O : 0 X : 0				
5	430 Brushed Stainless Steel-DHP-430 BL SF Dormakaba DPH301C Pull Handle BT fixed on a 75x170x1.2mm thick Grade 430 stainless steel plate with no cylinder cut out. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	No	41		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 41 L : 0 M : 0 N : 0 O : 0 X : 0				
6	Stainless Steel- DPH215 BTB Dormakaba 382x32mm D Shaped Offset Tubular Pull Handle BTB (BTB Fixing Sets included)	Pairs	4.0		
	1 : 0.0 2 : 0.0 A : 0.0 B : 0.0 C : 0.0 E : 0.0 G : 0.0 H : 0.0 I : 4.0 L : 0.0 M : 0.0 N : 0.0 O : 0.0 X : 0.0				
7	Stainless SteelM- DPH301B Dormakaba 325x25mm Straight Tubular Pull Handle Flange Fixing.	No	28		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 28 L : 0 M : 0 N : 0 O : 0 X : 0				
8	Stainless Steel-TH120 BP WC RH S.S Dormakaba Lever handle on 170x170 plate with Bathroom/WC Furniture RH.	Sets	3.0		
	1 : 0.0 2 : 0.0 A : 0.0 B : 0.0 C : 0.0 E : 0.0 G : 0.0 H : 0.0 I : 3.0 L : 0.0 M : 0.0 N : 0.0 O : 0.0 X : 0.0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

STEEL PLATES

9	430 Brushed Stainless Steel-DPP-430-BL-SF Dormakaba 75x170x1.2mm thick Grade 430 stainless steel plate. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	No	41
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 41 L : 0 M : 0 N : 0 O : 0 X : 0		
10	430 Brushed Stainless Steel-DPP-430-CL-SF Dormakaba 150x300x1.2mm thick Grade 430 stainless steel plate with cylinder cut out left. Stainless Steel Plate to have 6 countersunk holes for screw fixing.(Special Order) 430 Brushed Stainless Steel	No	14
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 14 L : 0 M : 0 N : 0 O : 0 X : 0		
11	430 Brushed Stainless Steel-DPP-430-CR-SF Dormakaba 150x300x1.2mm thick Grade 430 stainless steel plate with cylinder cut out right. Stainless Steel Plate to have 6 countersunk holes for screw fixing.(Special Order)	No	3
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 3 L : 0 M : 0 N : 0 O : 0 X : 0		

DEAD LOCKS

12	Stainless Steel-D02835 SS Dormakaba Narrow Stile Roller Dead Lock Operating with European Profile Cylinder. Case dimensions (mm) 174H x 52D. Forend dimensions (mm) 238H x 22W. Back set 35mm. 20mm	No	2
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 2 L : 0 M : 0 N : 0 O : 0 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

13	Stainless Steel-D032D SS Dormakaba Bathroom Deadlock. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Back set 57mm.	No	55		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 55 L : 0 M : 0 N : 0 O : 0 X : 0				
14	Stainless Steel-D037D SS Dormakaba Cylinder Deadlock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm.	No	17		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 17 L : 0 M : 0 N : 0 O : 0 X : 0				
	<u>SASH LOCK</u>				
15	Stainless Steel-D035S SS Dormakaba Bathroom Sash Lock. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Backset 57mm. Centres 57mm.	No	3		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 3 L : 0 M : 0 N : 0 O : 0 X : 0				
16	Stainless Steel-D036S SS Dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm	No	80		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 80 L : 0 M : 0 N : 0 O : 0 X : 0				
	Carried to Collection				
	Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery			R	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

PAD LOCK

17	Satin Nickel - DPL2000 GMK Dormakaba 45mm - E-SP Chrome Padlock with 8mm Stainless Steel Shackle 30mm Clearance - Grand Master Keyed.	No	7
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 7 L : 0 M : 0 N : 0		
	O : 0 X : 0		

CYLINDERS

18	Satin Nickel - DDC206301 GMK Dormakaba 63mm - 31.5+31.5mm Euro profile Nickel Plated E-SP 5 Pin Double Cylinder - Grand Master Keyed	No	43
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 43 L : 0 M : 0 N : 0		
	O : 0 X : 0		
19	Satin Nickel - DSC204101 GMK Dormakaba 40.5 - Euro profile Nickel Plated E-SP 5 Pin Single Cylinder - Grand Master Keyed.	No	17
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 17 L : 0 M : 0 N : 0		
	O : 0 X : 0		
20	Stainless Steel - DCE-105 S.S Dormakaba Narrow Stile Cylinder escutcheon.	Pairs	2.0
	1 : 0.0 2 : 0.0 A : 0.0 B : 0.0		
	C : 0.0 E : 0.0 G : 0.0 H : 0.0		
	I : 2.0 L : 0.0 M : 0.0 N : 0.0		
	O : 0.0 X : 0.0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

WC INDICATOR

21	Stainless Steel DWC-005,dormakaba Bathroom WC indicator (Red and White) and turnknob	Sets	41.0		
	1 : 41.0 2 : 0.0 A : 0.0 B : 0.0				
	C : 0.0 E : 0.0 G : 0.0 H : 0.0				
	I : 0.0 L : 0.0 M : 0.0 N : 0.0				
	O : 0.0 X : 0.0				

22	Stainless Steel DWC-006 dormakaba Disabled WC indicator (Red & White) and turnknob for physically impaired.	Sets	14.0		
	1 : 14.0 2 : 0.0 A : 0.0 B : 0.0				
	C : 0.0 E : 0.0 G : 0.0 H : 0.0				
	I : 0.0 L : 0.0 M : 0.0 N : 0.0				
	O : 0.0 X : 0.0				

CONVERSION KIT

23	Nickel Plated D038R NP dormakaba Rebate conversion kit for Euro Profile locks D036S, D037D.	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4				

BOLT

24	Satin Chrome BHD 150 Barrel bolt heavy duty 150 x 32mm	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4				

25	Satin Chrome NBHD 150 Necked bolt heavy duty 150 x 32mm	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4				

Carried to Collection**R**

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

DUST PROOF STRIKE

- 26 Stainless Steel DPS-SS-032 dormakaba Dust Proof Strike

No

2

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 2

DOOR STOP

- 27 Nickel Plated DDS-NP-018 dormakaba Floor Mounted Door Stop

No

77

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 77

HOOK

- 28 Stainless Steel DHC-SS-031B dormakaba Hat and Coat Hook with rubber buffer

No

41

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 41

- 29 Satin Chrome CH 150 Other Cabin hook 150mm

No

45

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 45

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

KICK PLATE

30	430 Brushed Stainless Steel DKP-430-SF 200 dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	No	62		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 62				

SIGNAGE

31	Stainless Steel DSS-130 M dormakaba 150x150mm MALE sign	No	9		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 9				
32	Stainless Steel DSS-131 F dormakaba 150x150mm FEMALE sign	No	9		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 9				
33	Stainless Steel DSS-132 MF dormakaba 150x150mm MALE/FEMALE sign	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
34	Stainless Steel DSS-133 P dormakaba 150x150mm DISABLED PERSONS sign	No	14		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 14				

DOOR CLOSERS AND FLOOR SPRINGS

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

"Dorma"

35	Dorma TS91/EN3 slide channel door closer - Non hold open (Silver)	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				
36	Dorma DPH301C 150 x 19mm stainless steel "D" shaped straight bolt-through pull handle (St/Steel)	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				
37	Dorma BTS75 EN 1-4 EN 1154 Floor Spring single action hold open alum doors weight 120kg (PRODUCT CODE: BTS75SAAHO)	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				
38	Dorma EN 2-4 Regular Arm Delayed Action Door Closer (PRODUCT CODE: TS73N)	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				

STEEL CUPBOARDSAproved steel lockers with standard baked enamel finish

39	G10 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork	No	40		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 40 X : 0				

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC****Carried to Collection****R**

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**"Vitrex" or other equal and approved vitreous
enamelled writing boards, etc. to SABS CSK - 36 -
1980**

40	Pinning boards 3000 x 1200mm high fixed to brickwork	No	80		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 80 X : 0				

41	Pinning boards 4000 x 1200mm high fixed to brickwork	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 12 X : 0				

42	Vitrex system enamelled green folding type writing board, with wall mounted centre board 4800 x 1220mm high with chalk rail and two swing leaves each 1200 x 1220mm high plugged	No	35		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 35				

FLIPCHART

43	Flipchart size 900 x 600mm with 40 sheets capacity on and including 3 legged stand, with and including integrated pen tray, paper clamp, self-adjusting stability hinge, adjustable legs, locking clips, non slip end caps, etc.	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 10 X : 0				

WHITEBOARD

44	Non-Magnetic drywipe whiteboard, size 1200 x 1000mm including easy rail system for two (2) boards.	No	80		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 80 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

R

PELMETS AND CURTAIN TRACKS

Curtain Tracks and curtains

45	Double curtain tracks for face fixing with 103,5mm projection, including 14 rollers per metre, brackets, stopped ends, pelmets etc, plugged including polycottons curtains in standard height	m	21		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 21 X : 0				

CHANGE ROOMS CURTAINS

46	Vinyl change rooms curtains 4000mm long with plastic clip-on rings on 150mm centres with 2000mm rod (Total width of curtain to be twice the rod length measured)	m	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4 X : 0				

GRAB RAILS

47	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.	No	14		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 14 X : 0				
48	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.	No	14		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 14 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

BATHROOM FITTINGS

49	<p>Franke (Suppliers code: 6948000) or other approved heavy duty wall mounted satin finished stainless steel soap dispenser, size 128 x 320 x 127mm, material thickness 14 gauge 2mm, casing is held in place by a stainless steel rod fixed to the mounting plate and a security lock, suitable for liquid soaps and lotions with and including one liter soap tank, push button on front and stainless steel screws and dowels.</p>	No	12
	<p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 12</p>		
50	<p>Franke "RODAN" (Suppliers code: RODX310) or other approved satin finish stainless steel wall mounted touch free electronic warm air hand dryer for wall mounting, material thickness 1,2mm, infrared sensor activity for non-touch operation and sensor range adjustable from 100 to 300mm (Cable and plug not included).</p>	No	12
	<p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 12</p>		
51	<p>Franke or other approved recessed type toilet roll holder, size 118mm diameter x110mm, manufactured from grade 304 (18/10) stainless steel, 2mm gauge with 20mm flange and two M10 treaded rods for bolting the unit through the wall.</p>	No	55
	<p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 55 X : 0</p>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

52	<p>Franke Chonos STRX605 1.2mm thick grade 304 18/10 stainless steel waste disposal bins (product code: 2120048), size 520 x 300 x270mm deep with waste bin capacity of 34 litres, plugged and screwed to the wall with stainless steel screws. installed stricly to manufactures specifcations. one per ablution/toilet block or medical bin</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 55</p>	No	55		
53	<p>Franke (Suppliers code: TD350) or other approved wall mounting heavy duty stainless steel paper towel dispenser with surface satin finish, material thickness 14 gauge (2mm), complete closed casing held in place by a stainless steel rod fixed to the mounting plate and a security lock, loading capacity 400 to 600 piece paper depending on convolution, includes stainless steel screws and dowels.</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 14</p> <p>"Union"</p>	No	14		
54	<p>150 x 150mm Stainless steel plate engraved with electrical symbol (St/Steel)</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 12</p>	No	12		
55	<p>150 x 150mm Stainless steel plate engraved with "no smoking" symbol (St/Steel)</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 1</p>	No	1		
Carried to Collection				R	
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery</p>					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

56	150 x 150mm Stainless steel plate engraved with "no open fires" symbol (St/Steel)	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
57	150 x 150mm Stainless steel plate engraved with "no unauthorised person" symbol (St/Steel)	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
58	150 x 150mm Stainless steel plate engraved with "no littering" symbol (St/Steel)	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				
59	150 x 150mm Stainless steel plate engraved with "running man RH" sign (St/Steel)	No	44		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 44				
60	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "KITCHEN"	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
61	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STAFF ROOM"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

62	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "VICE PRINCIPAL"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
63	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "RECEPTION"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
64	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STRONG ROOM"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
65	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINCIPAL OFFICE"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
66	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINT ROOM"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
67	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINCIPAL PA & ADMIN"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

68	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "SICK ROOM"	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				
69	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "WAITING AREA"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
70	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STAFF ROOM"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
71	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "OFFICE"	No	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				
72	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PASSAGE"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery					

800mm LETTERING ON DOORS

- 73 8mm Thick x 800mm high bold " ARIAL NARROW" numbers cut out of 8mm thick plain 'Valcromat' MDF board. All salient edges to be routed round and numbers finished with two coats high quality exterior polyurethane varnish after holes have been drilled for screw fixing .

Numbers to be secured to timber doors by means of minimum 3 no. stainless steel screws.

ROOM NAME : Classrooms

INSCRIPTION :All entrance doors to classrooms to be numbered sequentially .

POSITION: Letters to be centred horizontally on door with top sign at 1500mm AFFL.

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 0	X : 40		

No

40

200mm LETTERING ON DOOR OR WALL

3mm Thick Aluminium plate 220mm high, with engraved bold "SANS SERIF" lettering of 200mm height .Space between end of lettering and ends to plate to be 20mm .Engraving to be filled in, coloured black .All facing edges to be bevelled and polished.Plate to be plugged and fixed to wall at all four corners with counter sunk chrome plate semi dome type screws on a double sided tape backing top,bottom and ends .Lettering to be cased as indicated in the "Inscription" column below.
ROOM NAME: Administration,Nutrition centre ,Science laboratory,Multi purpose classroom,Computer room,Library,INSCRIPTION: Room name

- 74 3mm Thick aluminium plate engraved - ADMINISTRATION BLOCK"

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 0	X : 1		

No

1

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

75	3mm Thick aluminium plate engraved "NUTRITION BLOCK"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
76	3mm Thick aluminium plate engraved "CLASSROOM BLOCK"	No	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				
77	3mm Thick aluminium plate engraved "MULTI-PURPOSE CLASSROOM"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
78	3mm Thick aluminium plate engraved "LIFE SCIENCE AND CHEMISTRY LAB"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
79	3mm Thick aluminium plate engraved "COMPUTER AND LIBRARY BLOCK"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
80	3mm Thick aluminium plate engraved "GUARD HOUSE"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : -1				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 8 Ironmongery				R	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

81	3mm Thick aluminium plate engraved "MULTI-PURPOSE HALL"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				

EXTERNAL SIGNAGE

Powder coated 3-D Graphic Lettering fixed to wall with 10mm long pins welded at the back of the letters during manufacturing of signage , installed complete in position and in location as per Architects drawings

82	Sign size 1200x 400mm high overall, consisting of lettering "MATAMELA RAMAPHOSA SECONDARY SCHOOL"	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				

SIREN

"SIREN" OR EQUAL APPROVED

83	Code " integrated siren for PHB Panic Hardware is a device that emits a strong acoustic signal (90dB) every time the panic bar is pressed. It is battery operated and requires no external power . The device can be retrofitted on pre installed PHB(only) panic bar. A single profile cylinder (included) is used to program the function and set the device status (alarm off, alarm on, courtesy). finished in silver	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				

KEY CABINET

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Saunderson Security (0800 204 563) or similar approved

84 Wall mounted standard Fortis key cabinet with 100 hooks size 540 x 420 x 55mm deep

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 0	X : 1		

No

1

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 8
Ironmongery

[illegible]

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO .9</u>			
	<u>STRUCTURAL STEEL</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p>All structural steelworks must be done according to SANS1200 H.</p>			
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 9 Structural Steel			

Accuracy to be Class II.

All structural steel must be grade 300W according to SANS 1431, except cold rolled hollow sections which can be of commercial grade.

Weld electrode classification - Grade E70XX

Contractor must submit workshop details to the Engineer for written approval before the fabrication of any structural steelworks.

The contractor is responsible for the stability of structure until completion

All steel work dimensions to be checked during preparation of workshop drawings and any discrepancies must be reported to the Engineer immediately.

All connections must welded all around with a 5mm fillet weld, except where shown otherwise.

All bolts to be Grade 8.8.

Surface treatment and corrosion protection of structural steel as per SANS specifications

GALVANISED STEEL TRUSSES ETC

1	Welded double pitch shaped roof truss 34755mm wide x 2667mm high overall, formed of RHS-sections, including holes	t	21.00
---	-------------------------------------------------------------------------------------------------------------------	---	-------

PURLINS, GIRTS, BRACING, ETC

Purlins and girts bolted to steel

2	Lipped channel section purlins	t	3.50
3	Lipped channel section cleats	t	2.70

Welded bracing etc with flat section connection plates bolted to steel

4	Angle section bracing	t	1.80
---	-----------------------	---	------

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 9
Structural Steel

<u>Grade 8.8 Bolts to columns, struts, etc</u>					
5	High tensile bolts	t	0.35		
<u>CORROSION PROTECTION</u>					
6	SURFACE DRESSING AND REPAIRS AT PLACE OF FABRICATION Remove slag and weld spatter, grind welds to smooth profile, radius sharp edges as specified	t	29.00		
<u>SURFACE PREPARATION AND COATING APPLICATION</u>					
7	Shopwork, prepare surface and apply coat(s) as specified			SUM	
8	Sitework.Clean down surfaces, touch up damaged shop coats and apply finish coats as specified			SUM	
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 9 Structural Steel					

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>Drawings</u></p> <p>Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>All dimensions are to be checked on site prior to manufacture</p> <p>Any discrepancies are to be reported to the Architect before manufacture</p> <p>All work to be done in strict accordance with the Engineers specifications</p>			
	Carried to Collection		R	
	Section No. 2			
	BUILDING WORKS			
	Bill No. 10			
	Metalwork			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Shop drawings are to be submitted to Architects for approval prior to manufacture

Contractor can adjust the unit lengths to suit his manufacturing and transport requirements but must submit to the Architect for approval

All welding to be done in strict accordance with SABS codes and done by a qualified and registered welder and to the satisfaction of the Engineer

All welding will be subject to random testing and x-rays to the discretion and satisfaction of the Engineer

The Contractor will be required to provide a mock-up sample of a handrail and/or ballustrade

The Contractor shall study the drawings as attached to this document and will submit a all inclusive price per unit of measure for the items as described in the document. No claims with regards to an oversight or omission by the contractor will be entertained.

Where applicable to steel sections indicated by suffixes, the meaning will be in accordance with the following list:
SHS - Square Hollow Section
CHS - Circular Hollow Section
RHS - Rectangular Hollow Section

SUNDRY METALWORK

The following in identical steel support columns

1	Bolts, complete with nuts and two washers each	kg	60
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 60 X : 0		
2	76 x 76 x 3mm Tubular section columns 3050mm high	No	42
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 42 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

3	100 x 100 x 5mm Tubular section columns 3050mm high	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4 X : 0				
4	75 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)	No	42		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 42 X : 0				
5	100 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)	No	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 4 X : 0				
6	200 x 200 x 5mm Thick Base plate, with four holes for bolts and welded to bottom end of tubular section column	No	46		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 46 X : 0				
7	12mm Diameter x 75mm long sleeved masonry anchor (Provisional)	No	46		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 46 X : 0				

MILD STEEL HANDRAILS, BALUSTRADES, ETC

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

Welded and bolted stainless steel handrails fixed to concrete or brick walls

8	50mm External diameter 2,0mm thick continuous pipe rails	m	180
---	----------------------------------------------------------	---	-----

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 180	X : 0		

9	50mm Diameter x 2.0mm thick stanchions	m	45
---	----------------------------------------	---	----

1:0	2:0	A:0	B:0
C:0	E:0	G:0	H:0
I:0	L:0	M:0	N:0
O:45	X:0		

10	Extra over 50mm for rounded closed end	No	12
----	----------------------------------------	----	----

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 12	X : 0		

11	Extra for mitred L-intersection	No	6
----	---------------------------------	----	---

1:0	2:0	A:0	B:0
C:0	E:0	G:0	H:0
I:0	L:0	M:0	N:0
O:6	X:0		

12	100 x 170 x 10mm Thick plate section four times holed welded to 10mm thick baluster and recessed into concrete floor	No	45
----	----------------------------------------------------------------------------------------------------------------------	----	----

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 45	X : 0		

13	M6 expansion anchor with bolt	No	180
----	-------------------------------	----	-----

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 180	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

14	Extra over 50mm handrail for ramp or knee	No	45		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 45 X : 0				
15	Core drill 50mm Diameter x 50mm deep	No	45		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 45 X : 0				
	<u>Welded handrails to stair walls</u>				
16	50mm External diameter x 2,0mm hollow section rails	m	88		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 88 X : 0				
17	50mm External diameter wall flange	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
18	12mm diameter steel rods	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
19	Extra over for rounded closed end	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 12 X : 0				

**GALVANISED STEEL HANDRAILS,
BALUSTRADES, ETC**

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

	<u>50mm diameter x 2mm thick stainless steel bumper rail fixed 900mm above floor finish level complete with end caps including reveal and 12mm diameter stainless steel rod wall pin and 50mm diameter wall flange at maximum 500mm centres. Fixed with 6 x 60mm long coach screw with heavy duty wall plugs including approved epoxy grout 875mm above finished floor level with and including bolts, washers nuts, screws etc. to be corrosion proof. All installed strictly to manufacturers specifications</u>				
20	Handrails fixed to walls	m	63		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 63 X : 0				
	<u>Welded and bolted mild steel balustrading to ramps</u>				
21	Raking welded balustrading 1050mm high. 50 x 75 x 3mm hollow section posts at 1200mm centres with 50 x 50 x 3mm hollow section top and bottom rails. 19 x 19mm square vertical uprights at 100mm centres. 150 x 150 x 6mm baseplate, 4 x holed and welded to soffit posts. M16 x 100mm expansion bolts.	m	321		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 321				
	<u>Welded and bolted mild steel balustrading to walkways steps</u>				
22	Horizontal welded balustrading 1000mm high. 70 x 70 x 2,5mm hollow section posts at 1600mm centres; 40 x 40 x 2,5mm hollow section top and bottom rails. 10mm diameter vertical uprights at 100mm centres as per elevation. 150 x 150 x 6mm baseplate; 4 s holes for bolts. M16 x 100mm expansion bolts	m	133		
	1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 133				
Carried to Collection					R
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

WELDED SCREENS, GATES, ETC

Gates to doors fixed to frame size 50 x 25 x 3mm rectangular tubing sections with mitre 45 degrees at corners with 16mm mild steel solid rods welded from top frame through the middle frame to the bottom frame to before welded secure against wall with 70mm galvanised steel bullet hinges;

23	Gate and frame type MS01 size 960 x 2125mm high	No	39		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 39 X : 0				

24	Gate and frame type MS02 size 1820 x 2125mm high	No	15		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 15 X : 0				

PRESSED STEEL DOOR FRAMES

1,6mm Thick Mild Steel pressed metal frame with double rebate complete with lugs and base ties with back of the frame filled with cement mortar as supplied by manufacturer suitable for half brick walls

25	Frame for Door Type D03 size 813 x 2032mm high	No	42		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 42 X : 0				

1,6mm Thick Mild Steel pressed metal frame with double rebate complete with lugs and base ties with back of the frame filled with cement mortar as supplied by manufacturer suitable for one brick walls

26	Frame for Door Type D01 size 914 x 2032mm high	No	47		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 47 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

27	Frame for Door Type D02 size 930 x 2032mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 25 X : 0	No	25
28	Frame for Door Type D04 size 900 x 2032mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 16 X : 0	No	16
29	Frame for Door Type D02 size 1580 x 2415mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 8 X : 0	No	8
30	Frame for Door Type D03 size 1590 x 2140mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 7 X : 0	No	7

**FIRE ESCAPE DOORS AND HOT DIP
GALVANISED PRESSED STEEL FRAMES**

2mm Thick Mild Steel pressed metal frame with double
rebate complete with lugs and base ties with back of the
frame filled with cement mortar as supplied by
manufacturer suitable for one brick walls

31	Frame for Door Type D04 size 1590 x 2140mm high 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 7 X : 0	No	7
----	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----	---

STEEL WINDOWS, DOORS, ETC

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

-160-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

STEEL ROLLER SHUTTERS ETC

Roller shutters fixed to brickwork or concrete

39	Steel serving hatch door to suit opening size 1200 x 1225mm high with Van Dyk Brown SC Colorcoat HPS 200 finish manually operated, including centre lift lock and rubber, handles, Roll-A-Guides, hinges, fixing bolts, tracks etc, fixed in position to brickwork or concrete with a minimum of 900mm above the finish floor level	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		
40	Roll Up Serranda 1½ hour fire rated chromadek finish steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 2185 x 2400mm high with overhead box 285mm high including canopy cover, standard bottom rail, windlock guides, galvanised steel ancillary components including 4,5mm thick end plates, guide rails, fusible link and release mechanism and canopy cover, fixed to brick jambs and concrete lintel.	No	7
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 7 X : 0		

STEEL STRONGROOM DOORS, VENTILATORS, ETC

"Gunnebo SA"strongroom doors etc. suitable for 230mm walls fixed to brickwork or concrete

41	Mutual Austen Safes DS50/2/HD SABS Category 2 (Heavy Duty) left hand strongroom with 2 x 7-lever security keylock, overall size 850 x 1860mm high with and including powder coated finish	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

42	Double ended strongroom ventilator	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 1 X : 0		

NATURAL ANODISED ALUMINIUM LOUVRE UNITS

"Zenith Chevron Grill" fixed louver units fixed to wooden doors with an airflow of 60%

43	Louvre unit for 800 x 300mm high opening	No	55
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 55		

ALUMINIUM WINDOWS, DOORS, ETC

Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand.

The frames generally are to be suitable for brickwork, block work, or concrete reveals. They are to be fitted with fixing lugs of 2,8mm aluminium 13mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.

Immediately after the windows, doors, etc, have been delivered on to site, they are to be thoroughly overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, block work, concrete, steel, etc, the framing is to be treated with bituminous paint in an approved manner. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

securely structured to prevent distortion whilst the brickwork and lintols, are being built.

On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

General. All rates for doors, windows, shopfronts etc , should include for all glazing as specified.

Glazing beads: All door, etc to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

Glass and Glazing: All functional glass must be delivered to site cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

AAAMSA guide

All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Edition) as published by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA)

The following specifications are to be complied with:

Aluminium alloy extrusion: BS 1474

Aluminium alloy sheets: SANS 903

Anodising: SANS 999

Neoprene performed seals and gaskets: SATM C542

Powder coat finishing: SANS 1274

Glass

Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

Design indemnity

The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed

Drawings

Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc

All window prices should include aluminium louvres as shown

General

Workshop drawings to be approved by the architect before manufacture

Ironmongery

Prices for windows shall allow for two standard stainless steel side/top hung friction hinges and one bronze anodised aluminium handle per opening sash. Prices for doors shall allow for two pairs of standard flush bolts to double doors and one-and-a-half pairs of standard hinges per door leaf.

FRAME :

Extruded aluminium section to comply with AAAMSA specification.

Sub frame: Hardwood timber or steel according to manufacturers shop drawings, screwed and plugged to wall and at top & sides only at approximately 250mm c/c, with openings between wall and aluminium frame.

Sealed

with silicone sealer to match frame colour.

FINISH:

All External Aluminium Including Shopfront Framing & Louvers to be Powder Coated Interpon D 1000 Series ANP 37030 (Matt Stone Grey)

GLAZING:

Safety glass as specified in glazing beads as per manufacturers details subject to Architect's approval. Minimum glass thickness to comply with N.B.R. part N - glazing and S.A.B.S. 0137. Glazing to be installed in glazing beads in accordance with AAAMSA standards. Note: No liquid laminated glass to be used.

Carried to Collection

R

Section No. 2
 BUILDING WORKS
 Bill No. 10
 Metalwork

Exterior: 6.38mm Low-E Intruderprufe Laminated Safety Glass, Cool Grey

Interior: 6.38mm Laminated Safety Glass, Intruderprufe, Clear

Wind Loads: All External Windows to be Designed to Withstand Wind Loads up to 1 kN/m²

OTHER:

All hinges and flush bolts by manufacturer & to be approved by Architect.

Door closers, handles, locks and sliding gear as per ironmongery schedule.

GENERAL NOTES:

All windows are design and supply.

Tenderer to submit full detail shop drawings indicating sections, dimensions hardware and subframe details, as well as samples of the finishes.

Refer all discrepancies to Architect before any work proceeds.

All dimensions to be checked on site prior to ordering of any material.

All quantities to be checked by contractor prior to ordering.

Drawings to be read in conjunction with floor layout drawings and finishing schedules.

Natural annodised series 340 aluminium windows, doors, etc including sub-frames, fixing, silicone sealant all round, ironmongery and glazed with 6,38mm clear laminated safetyglass unless otherwise stated

44 Purpose made aluminium viewing panel size 2000 x 1110mm high in two equal fixed panes

No

1

1 : 0	2 : 1	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 0	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

45 Purpose made sliding viewing panel size 2000 x 1110mm high in three equal leafs (W6 & W5)

No

2

1 : 0 2 : 2 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 0

46 Purpose made aluminium double door in two equal leafs size 1575 x 2100mm high overall (D1)

No

2

1 : 0 2 : 2 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 10
Metalwork

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
1	25mm Thick on floors and landings	m2	48	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 48			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
2	30mm Thick on floors	m2	4,662	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 4662			
	<u>INTERNAL PLASTER</u>			
	Carried to Collection			
	Section No. 2			
	BUILDING WORKS			
	Bill No. 11			
	Plastering			
			R	

Cement plaster on brickwork

3	On walls				m2	10,890
	1 : 0	2 : 0	A : 0	B : 0		
	C : 0	E : 0	G : 0	H : 0		
	I : 0	L : 0	M : 0	N : 0		
	O : 0	X : 10890				

4	On narrow widths				m2	211
	1 : 0	2 : 0	A : 0	B : 0		
	C : 0	E : 0	G : 0	H : 0		
	I : 0	L : 0	M : 0	N : 0		
	O : 0	X : 211				

Steel troweled cement plaster on concrete

5	Plastered soffits of slabs, landings, etc.				m2	1,870
	1 : 0	2 : 0	A : 0	B : 0		
	C : 0	E : 0	G : 0	H : 0		
	I : 0	L : 0	M : 0	N : 0		
	O : 0	X : 1870				

6	Plastered sloping soffits to stairs.				m2	37
	1 : 0	2 : 0	A : 0	B : 0		
	C : 0	E : 0	G : 0	H : 0		
	I : 0	L : 0	M : 0	N : 0		
	O : 0	X : 37				

7	Plastered sides to stairs.				m2	42
	1 : 0	2 : 0	A : 0	B : 0		
	C : 0	E : 0	G : 0	H : 0		
	I : 0	L : 0	M : 0	N : 0		
	O : 0	X : 42				

EXTERNAL PLASTER

Steel troweled cement plaster on brickwork

8	On walls	m2	1,089
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 1089		

R

Section No. 2
BUILDING WORKS
Bill No. 11
Plastering

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

9	On narrow widths	m2	67		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 67				

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC**

10	M•Trim 38 x 1,2mm Aluminium Retro-fit Corner Protector or similar approved	m	68		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 68 X : 0				

11	M-Trim (Code: ASE120.NA) or other approved aluminium straight edge trim	m	89		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 89 X : 0				

SPECIALIST PLASTER WALL COATINGS

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 11
Plastering

Prepare substrate by removing all loose and friable material. Plaster should be a fine wood float finish with a confirmed moisture reading of < 15%. (Apply 1 to 2 coats Marmoran Skimfill with a steel trowel to achieve an optically flat surface free of imperfections where necessary.) Apply one coat Marmoran RLP Textured Acrylic Primer. Once cured, Apply the Marmolite Background Plaster by steel trowel, meter to a constant coating thickness, while wet cast in 1.5mm Marmolite Crystals. Allow to cure for 24 hours. Apply 2 coats Marmoran Glaze 15 by brush or sheep skin roller to seal and protect the coating. Crosshatch to achieve complete obliteration. Allow for drying time between coats. All in strict accordance with Manufactures specification.

12

Walls.

m2

192

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 192	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 11
Plastering

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO 12</u>			
	<u>FLOOR COVERINGS</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>FLOOR COVERINGS</u>			
	<u>Minimum of two coats of approved epoxy</u>			
1	On floors	m2	1,621	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 1621			
	<u>SUNDRIES</u>			
	<u>Levelling screed</u>			
2	Pavelite or other approved levelling screed applied to newly screeded floors to receive vinyl flooring.	m2	1,621	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 1621			
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	BUILDING WORKS			
	Bill No. 12			
	Floor Coverings			

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u> <u>BUILDING WORK</u> <u>BILL NO.13</u> <u>TILING</u> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <u>WALL TILING</u> <u>200 x 200mm x 9mm White glazed ceramic wall tiles (or similar approved) to be laid with manufactures approved tiling adhesive and white tiling grout. CTM code: WS10SH100L</u>			
1	On walls in isolated panels, splashbacks, etc <div style="display: flex; justify-content: space-between; margin-top: 10px;"> 1 : 02 : 0A : 0B : 0</div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> C : 0E : 0G : 0H : 0</div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> I : 0L : 0M : 0N : 0</div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> O : 0X : 14</div>	m2	14	
	Carried to Collection		R	
	Section No. 2 BUILDING WORKS Bill No. 13 Tiling			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

2	On walls	m2	247		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 247				
3	On narrow widths	m2	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				
<u>FLOOR TILING</u>					
<u>400 x 400 x 9.5mm Ceramic floor tiles (PC R200.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u>					
4	On floors and landings	m2	4,662		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4662				
5	Skirting formed of porcelain tile cut to 400 x 75mm high	m	4,244		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4244				
<u>Sundries</u>					
6	M•Trim 25 x 25mm Aluminium Angle or similar approved; to edge of concrete or similar approved. To be secured with screws	m	49		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 49				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 13
Tiling

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 13
Tiling

-177-

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.14</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>"Polylink" polypropylene pipes:</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>BUILDING WORKS</p> <p>Bill No. 14</p> <p>Plumbing and Drainage</p>			

Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

Concrete pipes:

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

Vitrified clay pipes:

Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid

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

uPVC pipes and fittings:

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

uPVC pressure pipes and fittings:

Pipes for water supply shall be of the class stated

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

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

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

Lead pipes and fittings

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

Reducing fittings

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

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Septic tanks

Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

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

Carried to Collection

R

Section No. 2
 BUILDING WORKS
 Bill No. 14
 Plumbing and Drainage

Steel sectional water tanks

Tanks shall comply with SABS CKS 114

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc

RAINWATER DISPOSAL

0,6mm Ogee Profile aluminium gutter or similar approved; complete with fixing clips

1	100 x 125mm Eaves gutters with beaded front edge	m	1,628		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1628 X : 0				
2	Extra over eaves gutter for angle	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
3	Extra over eaves gutter for stopped end	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				

Carried to Collection

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

5	100mm Diameter rainwater pipes	m	477		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 477 X : 0				
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
7	Extra over rainwater pipe for shoe	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 48 X : 0				
<u>SOIL DRAINAGE</u>					
<u>uPVC pipes</u>					
8	110mm Pipes vertically or ramped to cleaning eye etc (no excavation)	m	89		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 89 X : 0				
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	61		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 61 X : 0				
<u>Extra over uPVC pipes for fittings</u>					
10	110mm Access bend	No	72		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 72 X : 0				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

11	110mm Access junction	No	36
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 36 X : 0		
12	110mm Bend	No	106
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 106 X : 0		
13	110mm Junction	No	23
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 23 X : 0		
14	110mm uPVC rodding eye cover in end of pipe	No	12
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 12 X : 0		
	<u>Pre-cast concrete gulleys</u>		
15	110mm Dished gulley not exceeding 1m deep with 150mm steel grate and standard concrete gulley surround	No	6
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 6 X : 0		
	<u>Sundries</u>		
16	100mm Cast iron "ABC" cleaning eye	No	6
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 6 X : 0		

Carried to Collection

R

Section No. 2
 BUILDING WORKS
 Bill No. 14
 Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

17	Precast concrete inspection eye marker slab set in ground	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 6 X : 0				
18	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1 X : 0				
19	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1 X : 0				
<u>SANITARY FITTINGS</u>					
<u>"Franke" stainless steel</u>					
20	Franke Quinline "Model CVN620" polished stainless steel single bowl drop on sink, size 1200 x 535mm wide fitted onto cupboard (elsewhere specified)	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				
21	Franke Quinline "Model CVN621" polished stainless steel double bowl drop on sink, size 1500 x 535mm wide fitted onto cupboard (elsewhere measured)	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				
Carried to Collection					
Section No. 2 BUILDING WORKS Bill No. 14 Plumbing and Drainage				R	

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

TAP - SINK

- 22 Cobra watertech 15mm 3396ST CP single tap hole sink mixer with overarm swivel spout. Or similar approved.

No

4

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 4 X : 0

"VANSTONE" or similar approved

- 23 Reinforced concrete double compartment wash trough with outlets and three pedestals size 1400 x 530 x 340mm deep.

No

2

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 2 X : 0

WC01

- 24 Lecico Neon front flush close coupled WC colour White, 100mm outlet with cistern connected to 15mm water supply with foot of bowl sealed to floor with abe Dow Corning acetoxysilicone sealant.

- Material: Vitreous China
- Pan code: NEOBOXFFL0MDFBE
- Height: 380mm
- Width: 630mm
- Depth: 759mm.

No

41

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 41 X : 0

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

25	<p>Lecico Atlas raised paraplegic CC WC with side lever and grab rails combo colour White 100mm outlet with cistern connected to 15mm water supply with foot of bowl sealed to floor with abe Dow Corning acetoxysilicone sealant.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Pan code: PARSETCCB0RAIBE • Height: 855mm • Width: 443mm • Depth: 731mm. 	No	14
	<p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 14 X : 0</p>		
26	<p>32mm FM1.100 Flushmaster with paraplegic extended handle</p>	No	14
	<p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 14</p>		
	<u>Urinal</u>		
27	<p>Lecico Atlas 40cm urinal colour White, with back inlet and waste outlet including wall mounting brackets and connected to water supply, sealed with silicone sealant where urinal meets wall.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Urinal code: ATLBOXURI0B40BE • Height: 380mm • Width: 295mm • Depth: 500mm • Spreader:back entry • Waste Option: waterless option 	No	30
	<p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 30</p>		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

28	<p>Flushmaster FJ 6.000 urinal flushvalve including FJT5.1 tailpipe</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 30</p> <p><u>WHB</u></p>	No	30		
29	<p>Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm • Depth: 480mm. <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 48 X : 0</p>	No	48		
30	<p>Lecico Atlas 50cm Medical basin with brackets colour White fixed with stainless steel screws and washers to plugs in wall with optional concealed wall brackets sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.</p> <ul style="list-style-type: none"> • Material: Vitreous China • Basin code: ATLDUOMED0500UE • Height: 210mm • Width: 510mm • Depth: 410mm. <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 14 X : 0</p>	No	14		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

"Cobra Watertech" or similar approved

31	"Cobra Watertech Star" or similar approved 15mm chrome plated pillar tap (Code: 111-15) with cold indices, manufactured in accordance with SANS 226: 2009 Type 1 (BS 5412).	No	48
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 48 X : 0		
32	"Cobra Watertech" or similar approved 32mm chrome plated waste (Code: 309-32) with anti-theft plug and spindle.	No	56
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 56 X : 0		
33	"Cobra Watertech" or similar approved Tail Pipe (C-342/1)-Bottle Trap, 35mm x 200mm long, Chrome Plated. To suit 340-G1.1/4 Bottle Traps.	No	36
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 36		
34	"Cobra Watertech" or similar approved Angle Valve (832/350F).	No	137
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 137		

WASTE UNIONS ETC

"Cobra Watertech"

35	38mm "Cobra 316" unslotted waste and plug with chain	No	68
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 68		

SANITARY PLUMBING

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>uPVC pipes</u>			
36	50mm Pipes	m	147	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 147			
37	50mm Pipes laid in and including trenches not exceeding 1m deep	m	18	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 18			
38	110mm Pipes	m	89	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 89			
	<u>Extra over uPVC pipes for fittings</u>			
39	50mm Bend	No	56	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 56			
40	50mm Access bend	No	21	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 21			
41	50mm BSP adaptor	No	55	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 55			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

42	110mm Bend	No	61	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 61			
43	110mm Pan Connector	No	55	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 55			
44	110mm "GI Two-way" vent valve	No	55	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 55			
	<u>Sundries</u>			
45	Testing waste pipe system		Item	
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00			
	C : 0.00 E : 0.00 G : 0.00 H : 0.00			
	I : 0.00 L : 0.00 M : 0.00 N : 0.00			
	O : 1.00 X : 0.00			
	<u>WATER SUPPLIES</u>			
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>			
46	32mm Pipes laid in and including trenches not exceeding 1m deep	m	234	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 234			
47	50mm Pipes laid in and including trenches not exceeding 1m deep	m	156	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 156			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints

48	32mm Bend	No	71		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 71				
49	32mm Reducer	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				
50	32mm Tee	No	68		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 68				
51	50mm Bend	No	47		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 47				
52	50mm Tee	No	31		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 31				
53	35 x 50 x 35mm Junction	No	23		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 23				

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

<u>Class 0 copper pipes</u>				
54	15mm Pipes	m	819	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 819			
55	22mm Pipes	m	1,022	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 1022			
<u>Extra over class 0 copper pipes for capillary fittings</u>				
56	15mm Fittings	No	789	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 789			
57	22mm Fittings	No	912	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 912			
<u>Brass</u>				
58	15mm Fullway gate valve	No	17	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 17			
59	22mm Fullway gate valve	No	22	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 22			

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 14
Plumbing and Drainage

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>Sundries</u>				
60	Testing water pipe system		Item		
	1 : 0.00 2 : 0.00 A : 0.00 B : 0.00				
	C : 0.00 E : 0.00 G : 0.00 H : 0.00				
	I : 0.00 L : 0.00 M : 0.00 N : 0.00				
	O : 1.00 X : 0.00				
	<u>ELECTRIC WATER HEATERS</u>				
	<u>"Kwikot"</u>				
61	Kwikot 25 litre KwikBoil (code: KWIKBOIL-25), size 900 x 255 x 613mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 3000 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1 X : 0				
62	Kwikot 200 Litre Slimline 600 Dual electric water heater (Code : ESG-100) complying with SABS 151-2002, overall size 990 x 480mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code : KHN4.150CX) installed on hot and cold water supply. Installation to include a 15mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.104), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 2 X : 0				
	Carried to Collection			R	
	Section No. 2				
	BUILDING WORKS				
	Bill No. 14				
	Plumbing and Drainage				

MATAMELA RAMAPHOSA SECONDARY SCHOOL

FOR INDEPENDENT DEVELOPMENT TRUST (IDT)

[illegible]

-196-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**4 mm Silvered float glass copper backed mirrors
with 10 mm bevelled and polished edges holed for
and fixed with chromium plated dome capped mirror
screws with rubber buffers to plugs in brickwork or
concrete**

- 4 600 x 400 x 6mm polished plate glass mirrors with square polished edges holed for and plugged with chrome plated detachable chrome plated screws. Above all WHB. CTM Code: BSMR4060R) or similar approved

No

14

1 : 0	2 : 0	A : 0	B : 0
C : 0	E : 0	G : 0	H : 0
I : 0	L : 0	M : 0	N : 0
O : 14	X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 15
Glazing

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO. 16</u>			
	<u>PAINTWORK</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Dulux Double Velvet to interior new cement plaster (NW 200).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Dulux Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Double Velvet (VEL) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u>			
1	On internal walls	m2	10,890	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 10890			
	Carried to Collection			R
	Section No. 2 BUILDING WORKS Bill No. 16 Paintwork			

Dulux Weather guard to exterior new cement plaster (NW 100). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Dulux Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Weather guard with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On external walls	m2	1,089						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 1089							

ON SMOOTH CONCRETE

Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint

3	Plastered soffits of slabs, landings, etc.	m2	1,870						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 1870							

4	Plastered sloping soffits to stairs.	m2	37						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 37							

5	Plastered sides to stairs.	m2	42						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 42							

ON FIBRE-CEMENT

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.

6	On fascias and barge boards	m2	1,048		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 1048 X : 0				

Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.

7	On window sills not exceeding 300 mm girth	m	373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 373 X : 0				

ON METAL

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

8	On door frames	m2	34						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 34							
9	On strong room doors	m2	5						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 5	X : 0							
10	On windows with burglar bars	m2	314						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 314							
11	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	252						
	1 : 0	2 : 0	A : 0	B : 0					
	C : 0	E : 0	G : 0	H : 0					
	I : 0	L : 0	M : 0	N : 0					
	O : 0	X : 252							

ON WOOD

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Plascon Velvagio Satin to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

12	On doors	m2	91
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 91 X : 0		

Three coats matt varnish

13	On doors	m2	171
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 171 X : 0		

14	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	8,343
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 8343 X : 0		

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 16
Paintwork

[illegible]

Carried to Final Summary

-206-

- **Joints between paving blocks**

Clean dry sifted plaster sand shall be worked and vibrated with a vibrator into joints between paving blocks. This process shall be repeated until all joints are properly filled. Upon completion, paving shall be cleaned by sweeping up all excess sand and washing down paving with a slow running hose

- **Paving blocks**

Paving blocks to be approved best quality paving blocks

as prescribed, even in size, shape, colour and equal to samples to be submitted to and approved by the Principal Agent

- **Laying pattern**

The laying pattern of paving blocks shall be as described. with joint widths limited to maximum 5mm wide

- **Perpend**

All perpends are to be accurately kept. Paving work is to be carefully protected against damage and cement or mortar splashes shall be thoroughly cleaned down on completion. No oiling shall be permitted

- **General**

Special care must be taken to preserve arrises and faces of paving blocks during transit and handling. Any paving blocks on the site not in accordance with the approved samples shall be rejected by the Principal Agent, in which case the delivery and removal of thereof shall be solely for the Contractor's account

Relevant SANS 1200 Specifications

The following relevant SANS 1200 Specifications shall be regarded applicable:

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 1
APRONS AND RAMPS

-208-

-209-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>				
18	Ramps to falls	m2	161		
19	Sloping edge of stairs not exceeding 450mm high.	m	79		
20	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	53		
	<u>Brickwork of NFX bricks in class I mortar</u>				
21	One brick walls in foundations	m2	88		
	<u>Brickwork reinforcement</u>				
22	150mm Wide reinforcement built in horizontally in foundations	m	259		
	<u>"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints</u>				
23	Extra over brickwork for face brickwork in foundations	m2	88		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R7 500,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
24	Coping on top of one brick wall	m	250		
Carried to Collection				R	
Section No. 3 EXTERNAL WORKS Bill No. 1 APRONS AND RAMPS					

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.2</u>			
	<u>FENCING</u>			
	<u>THE FOLLOWING IN FENCING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill			

	<u>EXCAVATIONS</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	190	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 190			
2	Trenches	m3	8	
	1 : 0 2 : 0 A : 0 B : 0			
	C : 0 E : 0 G : 0 H : 0			
	I : 0 L : 0 M : 0 N : 0			
	O : 0 X : 8			
	Carried to Collection			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 2			
	FENCING AND GATES			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	19		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 19				
4	Hard rock	m3	19		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 19				
<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	190		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 190				
<u>Risk of collapse of excavations</u>					
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1,894		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1894				
<u>Keeping excavations free of water</u>					
7	Keeping excavations free of water		Item		
<u>Soil insecticide</u>					
8	To bottoms and sides of trenches etc	m2	24		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 24				
Carried to Collection				R	
Section No. 3					
EXTERNAL WORKS					
Bill No. 2					
FENCING AND GATES					

FILLING

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density

9	Backfilling to trenches, holes, etc	m3	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				

CONCRETE, FORMWORK AND REINFORCEMENT

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa/19mm concrete

10	Bases	m3	190		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 190				

11	Strip footings	m3	4		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 4				

MASONRY

Brickwork of NFP bricks in class II mortar

12	One brick walls in foundations	m2	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 6				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

13	One brick wall	m2	23
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 23		
	<u>BRICKWORK SUNDRIES</u>		
	<u>Joint forming material in movement joints</u>		
14	10mm Bitumen impregnated fibre board built vertically between brick skins	m2	11
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 11		
	<u>Brickwork reinforcement</u>		
15	150mm Wide reinforcement built in horizontally	m	88
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 88		
	<u>Weep, holes, etc</u>		
16	Leave or form brick size opening as weep holes	No	4
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 4		
	<u>"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints</u>		
17	Extra over brickwork for face brickwork	m2	12
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 12		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

R

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

GATES, ETC.

21	Sliding palisade gate 5000 x 1800mm high formed of 76 x 38 x 2mm rectangular tubing frame, with 40 x 40 x 2mm welded angle iron paling with 40 x 40 x 5mm angle iron fixed into base, with two 80mm roller coaster wheels fitted with ball bearing, track formed of 12mm steel rod welded to the iron angle with gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length fixed in position with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys	No	2
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 2		

22	Pedestrian palisade gate size 1500 x 1800mm high of 40 x 40 x 2mm welded angle iron paling with 50 x 25 x 1.6mm rectangular tubing frame with 75 x 75 x 2mm mild steel square tubing gate posts of 2400mm overall with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys and gate handles fixed to rectangular 1mm plate with swivel castors on opening sections and barrel bolts into paving	No	1
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 1		

PAINTWORK ETC TO NEW WORK

23	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	4,037
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 4037		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 2
FENCING AND GATES

[illegible]

-219-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

4	Take out and remove tree with trunk exceeding 500mm and not exceeding 1000mm girth measured 1m above ground level including excavating and removing roots and fill hole with clean dry earth filling, watered and rammed	No	11		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 11				
	<u>BULK EXCAVATION, FILLING, ETC</u>				
	<u>Open face excavation in earth over sloping site</u>				
5	Open face excavations	m3	36,373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 36373				
	<u>Extra over bulk excavation in earth for excavation in</u>				
6	Soft rock (intermediate excavation)	m3	1,008		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1008				
7	Hard rock (hard excavation)	m3	1,008		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1008				
	<u>Extra over all excavations for carting away</u>				
8	Surplus material from excavations to stock piles on site not exceeding 300m	m3	31,373		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 31373				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Earth filling supplied by the contractor in platforms

9	In platforms of G5 material in accordance with SABS 1200 DM compacted to 90% Mod AASHTO density	m3	32,429		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 32429				

Prescribed density tests on filling

10	Natural California Bearing Ration "test"	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				
11	"Modified AASHTO Density" test	No	40		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 40				
12	Atterberg limits test in accordance with method A2 to A4 of TMH1	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				
13	UCS test in accordance with method A14 of TMH 1	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 3
SITE WORKS (PROVISIONAL)

[illegible]

-223-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

2	Stone pitched channel 1000mm wide x 250mm deep of 120mm thick laid in panels to falls formed of 20MPa unreinforced concrete, stones including all necessary formwork, etc	m	278		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 278				
3	Extra for fair open end	No	18		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 18				
4	Extra for fair stopped end	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				
5	Extra for angle intersection	No	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				
6	Extra for T-intersection	No	18		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 18				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

-225-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

11	<p>Selected imported sand filling in bedding under and filling around pipes (LI)</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 18</p>	m3	18		
12	<p>19mm Crushed stone bedding under pipes</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 35</p>	m3	35		
13	<p>Unreinforced concrete bedding under pipes</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 5</p> <p><u>Class 50D concrete pipes</u></p>	m3	5		
14	<p>450mm pipes laid in trenches (trenches elsewhere)</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 288</p> <p><u>Manholes, Catchpits, Etc</u></p>	m	288		
15	<p>Excavate and cart away for and build catchpit size 1350 x 1000mm and not exceeding 750mm deep internally, formed of 150mm thick cement concrete (20MPa) bottom, one brick sides, 150mm thick cement concrete (25MPa) kerb around top, rebated for and fitted with 60 x 60 x 8mm galvanised mild steel angle section frame with 125mm long x 10mm diameter bent fixing lugs welded on and cast into concrete kerb, frame fitted with and including 11 bars mild steel grate, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 28</p>	No	28		
Carried to Collection				R	
<p>Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA</p>					

Precast concrete circular inspection chambers

16	Inspection chamber 610mm diameter and not exceeding 750mm deep internally	No	7		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 7				

SEWER RETICULATION

Sewer line

17	Excavation not exceeding 2m deep for drain trenches	m3	218		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 218				

18	Backfilling to sewer trenches compacted to 93% Mod AASHTO density	m3	109		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 109				

19	Selected imported sand filling in bedding under and filling around pipes	m3	55		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 55				

uPVC lass 34 pipes

20	110 Diameter Pipes	m	455		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 455				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

21	Extra over excavations in earth for pipe trenches, etc for excavations in soft rock	m3	60		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 60				
22	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	80		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 80				
	<u>Extra over uPVC pipes for fittings</u>				
23	110mm Bend	No	56		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 56				
	<u>Sundries</u>				
24	15MPa/19mm mass concrete encasing around 100mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	90		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 90				
25	15MPa/19mm mass concrete in precast I.E marker block set flush with the ground or paving	No	48		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 48				

**THE FOLLOWING IN PRE-FABRICATED
MANHOLES**

Pre-fabricated concrete manholes and shall constructe according to the Manufacturer's instruction.All manholes to be out of dolomitic aggregates

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

Excavate in earth for and including circular type precast concrete manhole formed of 1,330m diameter x 100mm thick 20Mpa/19mm mass concrete bottom with manhole shaft formed of 1,02m diameter (internal) precast concrete rings with joints sealed with non hardening waterproof such as DENSO sealing with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 617 mesh reinforcement and 150mm vitrified clay channels and finished on all exposed surface with 25mm thick granolithic with angles rounded including all necessary step irons, etc

26	Manhole exceeding 1m and not exceeding 2m deep	No	35
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 35		

Sundries

27	Hole through side of precast concrete manhole for pipe exceeding 100mm and not exceeding 200mm diameter and make good	No	35
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 35		

WATER SUPPLY

Water connection

28	Excavate not exceeding 2m deep for water supply trenches	m3	274
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 274		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

29	Backfilling to sewer trenches compacted to 93% Mod AASHTO density	m3	205		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 205				
30	Selected imported sand filling in bedding under and filling around pipes	m3	33		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 33				
	<u>75mm Upvc Class 12 pipes</u>				
31	75mm pipe and excavation exceeding 1m and not exceeding 2m deep	m	570		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 570				
	<u>Extra over uPVC for fittings potable water reticulation pipe</u>				
32	75mm Bend	No	36		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 36				
33	75mm Tee	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Valves, etc including joints to pipes and/ or fittings

34	75mm non-return valve	No	14		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 14				
35	75mm brass fullway wheel valve	No	16		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 16				

SUNDRIES

36	Excavate in earth for and build stop cock box size 225 x 225 x 600mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including 15Mpa/19mm mass concrete surround size 75mm wide x 100mm deep all round (LI)	No	6		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 6				
37	Excavate in earth not exceeding 1m deep for and build circular type pre-cast concrete valve and meter chamber formed of 1,05m diameter (internal) pre-cast concrete rings with and including pre-cast concrete cover slab 125mm thick and pre-cast concrete spacer slab with opening for and pavement type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete filling in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

38	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	33
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 33		
39	Extra over excavation in earth for pipe trenches, etc for excavation in soft rock	m3	31
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 31		
40	15Mpa/19mm mass concrete in thrust blocks around fittings including necessary additional excavations, formwork, etc	m3	27
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 27		
41	Drinking fountain comprising 25 diam HDPE high level pipe with all the necessary fittings cast into concrete with and including Cobra watertech CP demand taps (code KM2-20215) or similar approved with 110mm uPVC pipe with steeldrain grate epoxied to concrete lip and 25D precast stormwater pipe of outer diameter of 360 degree to connect to the existings st to shaped to form a basin tiled with mosaic tiles with all visible areas to receive 10 x 10mm mosaic tiles approved by the Architect with 20MPa/38mm mass concrete footing including necessary excavation, 100mm thick 20MPa/38mm mass concrete slab 2,70m long x 2,70m wide graded to falls with wood float finish with 40mm waste pipe, finished with 300 x 300mm black slate with tile chip design as per Architect design and the top wall finished with 25 x 25mm white mosaic tiles all around	No	4
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 4		

WATER SUPPLIES TO FIRE APPLIANCES

FIREWATER RETICULATION

Carried to Collection

Section No. 3

EXTERNAL WORKS

Bill No. 4

STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

Class 12 uPVC pipes with and including "Plasson" compression fittings

42	110mm Pipes laid in and including trenches not exceeding 1m deep	m	791		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 791				

Extra over class 12 uPVC pressure pipes for fittings with solvent welded joints

43	110mm Junction	No	24		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 24				
44	110mm Bend	No	38		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 38				
45	110 x 25 x 110mm Reducing Junction	No	8		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 8				
46	25mm Bend	No	22		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 22				
47	25mm Junction	No	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

48	110 x 25mm Reducer	No	13		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 13				
	<u>Galvanised steel pipes</u>				
49	25mm Pipes	m	121		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 121				
	<u>Extra over galvanised steel pipes for steel fittings</u>				
50	25mm Fittings	No	248		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 248				
	<u>Class 0 copper pipes with capillary couplings</u>				
51	25mm Pipes	m	108		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 108				
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
52	25mm Fittings	No	37		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 37				

VALVES, ETC.

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

"Cobra Watertech"

53	Cobra Watertech 100mm BSP parallel threaded F x F Cobra cast brass light duty fullway gate valve with non- blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1002-125-100mm).	No	7
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 7		

HYDRANTS

54	80 x 65mm Brass right angle hydrant valve with cap and chain	No	7
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 7		

SUNDRIES

55	Unreinforced concrete encasing to 100mm horizontal pipe	m	22
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 22		
56	Unreinforced concrete encasing to 100mm vertical bend	No	8
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 8		
57	Unreinforced concrete encasing to 100mm vertical junction	No	3
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 3		

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

R

<u>Excavation in earth not exceeding 2m deep:</u>					
63	Trenches	m3	191		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 191				
<u>Extra over trench and hole excavations in earth for excavation in :</u>					
64	Soft rock	m3	14		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 14				
65	Hard rock	m3	12		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 12				
<u>Extra over all excavations for carting away:</u>					
66	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	199		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 199				
<u>Risk of collapse of excavations:</u>					
67	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	632		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 632				
<u>Keeping excavations free of water:</u>					
68	Keeping excavations free of water.		Item		
Carried to Collection					
Section No. 3					
EXTERNAL WORKS					
Bill No. 4					
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

Earth filling supplied by the contractor compacted to 95% Mod ASHTO density:

69	Backfilling to trenches, holes, etc.	m3	86		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 86				

70	Under floors, steps, pavings, etc	m3	51		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 51				

Compaction of surfaces:

71	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density.	m2	156		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 156				

25 MPa/20mm concrete:

72	Strip footings	m3	62		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 62				

73	Surface beds.	m3	16		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 16				

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

R

Sundries:

74	Extra for setting in position and casting holding down bolt into concrete base.	No	156		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 156				

Finishing top surfaces of concrete smooth with a wood float:

75	Apron slabs, pavings, etc to slight falls.	m2	156		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 156				

Rough Formwork to sides:

76	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	312		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 312				

Fabric reinforcement:

77	REF. 156 fabric reinforcement in concrete surface beds, slabs, etc.	m2	156		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 156				

Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar:

78	One brick walls.	m2	382		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 382				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

Brickwork reinforcement:

79	150mm Wide reinforcement built in horizontally.	m	1,470		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1470				

Galvanised hoop iron cramps, ties, etc.:

80	30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters).	No	160		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 160				

"Corobrik Imperial FBX" or similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

81	Extra over brickwork for face brickwork externally.	m2	176		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 176				

One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':

82	Under surface beds.	m2	156		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 156				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Rainwater tanks:

83	5000 Litre polyethylene rotomoulded vertical water storage tank complete with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a doublestrand of 4mm diameter galvanised wire embedded into concrete. (Note: Tank to be filled with water before Practical Completion).	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

84	Hole through top of tank lid for 100mm diameter pipe.	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

**"PURERAIN TECHNOLOGIES" OR SIMILAR
APPROVED FILTERS**

85	DN 400 hydraulic jump filters installed as per manufacturer's instructions with and including all fixtures.	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

TAPS, VALVES, ETC.

86	Approved 15mm standard brass hose bibtap with wingnut, lining and 15mm hose union, manufactured in accordance with SANS 226:2009 Type 2 (BS 1010).	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

LOCKS**Carried to Collection****R**

Section No. 3

EXTERNAL WORKS

Bill No. 4

STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

The following locks are to be suitable for master and grand master key operation**"Dorma" or similar approved**

87	50mm Brass padlock with 28mm Stainless Steel shackle.	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

ELEVATED STEEL WATER STORAGE TANK**"PRESTANKS" or similar approved.**

88	"PRESTANK" or equal approved elevated steel water storage tank size 10 x 10 x 3m high two module deep formed from 3mm thick panels with and including 2,5 mm thick 610 mm wide roof sheets with edge bent up to provide overlap, all internal bracing, internal access ladder, hinged lockable manhole, float and pointer type water level indicator, screened ventilator, all connecting points, standard fittings and pipes, required fastener, bolts, nuts, washers, sealants and corrosion protection fixed to 10m high hot dip galvanised steel support tower with and including caged external access ladder, all external bracing, required fasteners, bolts, nuts, washers, excavations, backfilling and reinforced concrete bases, all according to engineers design and specifications. Cost to include the structural design and sign off by a competent person (Professional Registered Engineer registered with ECSA)	No	2		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2				

DOMESTIC WATER BOOSTER PUMPS**Package pump set complete with variable speed drive and manifolds.**Duty: 24m³/HR (max) - 10m³/HR (min)**Carried to Collection****R**

Section No. 3
EXTERNAL WORKS
Bill No. 4
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA

	<u>Operating Pressure: 10 BAR (max) - 2 BAR (min).</u>				
89	<u>Power: 2.5 kW (380 V - 415 V)</u> 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2 <u>Domestic water booster pump sundries</u>	No	2		
90	Standard thermometer to HDPE pressure pipes (Class 6) 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2	No	2		
91	Automatic air vent 'spirax sarco' 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2	No	2		
92	350mm diameter opening in one brick wall for exhaust fan. 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2	No	2		
93	80mm AVK PN16 or other approved resilient seal gate valve, non-rising spindle and clockwise closing. 1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2	No	2		
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 4 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

-244-

-245-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.5</u>			
	<u>WALKWAYS (PROVISIONAL)</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	<p>To reduce levels, etc.</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 63</p>	m3	63	
	<u>Extra over excavation in earth for excavation in</u>			
2	<p>Soft rock</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 9</p>	m3	9	
3	<p>Hard rock</p> <p>1 : 0 2 : 0 A : 0 B : 0</p> <p>C : 0 E : 0 G : 0 H : 0</p> <p>I : 0 L : 0 M : 0 N : 0</p> <p>O : 0 X : 9</p>	m3	9	
	Carried to Collection			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 5			
	WALKWAYS			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Extra over all excavation for cart away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	63		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 63				

Approved non-expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150mm to 93% HCE density

5	Under floors, steps, paving, etc	m3	63		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 63				

Compaction of surfaces

6	Compaction of ground surface under floors, trenches, 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	420		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 420				

Soil insecticide

7	Under floors etc including forming and poisoning shallow furrows against foundation wall etc, filling in furrows and ramming	m2	420		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 420				

CONCRETE, FORMWORK AND REINFORCEMENT

REINFORCEMENT CONCRETE

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
WALKWAYS

25MPa/19mm concrete

8	Surface beds cast in panels on waterproofing	m3	63		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 63				

TEST BLOCKS

9	Making and testing 150 x 150 150mm concrete strength test cube (Provisional)	No	10		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 10				

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

10	Surface beds, ramps, etc	m2	420		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 420				

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to sides

11	Edges of slabs not exceeding 300mm high	m	1,006		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1006				

REINFORCEMENT

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 5
WALKWAYS

R

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Fabric reinforcement

12	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	420		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 420				

MOVEMENT JOINTS ETC (PROVISONAL)

13	100mm isolation joints not exceeding 300mm high	m	107		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 107				

14	10 x 12mm polysulphide sealant	m	107		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 107				

FACE BRICKWORK

"Corobrik Imperial FBX" or Similar approved Face bricks size 222 x 106 x 73mm, manufactured in accordance with 227:2007 (Purchase price of R7 500,00/1000 VAT excl. delivered to site) pointed with square recessed horizontal and vertical joints

15	Face brick-on-edge coping on top of one brick wall in cement mortar and pointing on top and both sides	m	716		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 716				

DAMP-PROOFING OF WALLS AND FLOORS

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
WALKWAYS

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**One layer of 250 micron "Consol Plastic USB Green"
waterproof sheeting sealed at laps with "Gunplas
Pressure Sensitive Tape"**

16	Under surface beds	m2	420		
	1 : 0	2 : 0	A : 0	B : 0	
	C : 0	E : 0	G : 0	H : 0	
	I : 0	L : 0	M : 0	N : 0	
	O : 0	X : 420			

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 5
WALKWAYS

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORK</u>			
	<u>BILL NO.6</u>			
	<u>PARKING AND PAVING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>PAVING</u>			
	<p>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</p> <p>C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks</p>			
	<u>EARTHWORKS</u>			
	<u>Site clearance</u>			
1	<p>Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p> <p>1 : 0 2 : 0 A : 0 B : 0 C : 0 E : 0 G : 0 H : 0 I : 0 L : 0 M : 0 N : 0 O : 0 X : 2239</p>	m2	2,239	
	Carried to Collection			R
	<p>Section No. 3 EXTERNAL WORKS Bill No. 6 PARKING AND PAVING</p>			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Earthworks

2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
3	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	336		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 336				
4	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	336		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 336				
5	Extra over excavation for excavation in soft rock	m3	128		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 128				
6	Ditto, but in hard rock	m3	178		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 178				

Carried to Collection**R**

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Paving layers

The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.

Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit

7	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
8	150mm Imported G9 material compacted to 95% mod. AASHTO density	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
9	150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
10	Provide a sum of R5 000,00 (Five thousand rand) for compaction tests as required by the Engineer	Item			5,000.00

PAVING

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>Interlocking paving</u>				
11	80mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 20mm sand founding layer and covered with sandlayer and sweep into joints	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
12	Circular cutting to paving	m	33		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 33				
13	Weed-killing treatment of surface under paving	m2	2,239		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 2239				
	<u>Kerbs, etc</u>				
14	Precast concrete figure 8 mountable kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	250		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 250				
	<u>Sundries</u>				
15	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	41		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 41				
	Carried to Collection			R	
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 6				
	PARKING AND PAVING				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

ROAD MARKINGS

**Non-reflectORIZED Paint Applied at Nominal Rate of
0,42 l/m² (or Proprietary Brand Road-Marking
Material (Nominal Rate of Application and
Particulars Stated))**

16	White line 300mm wide (broken or unbroken)	km	3
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 3		
17	White characters and symbols.	m ²	12
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 12		
18	Stop signs letters on road surface	m ²	4
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 4		
19	Yield signs letters on road surface	m ²	2
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 2		
20	Traffic island markings (any colour)	m ²	23
	1 : 0 2 : 0 A : 0 B : 0		
	C : 0 E : 0 G : 0 H : 0		
	I : 0 L : 0 M : 0 N : 0		
	O : 0 X : 23		

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Setting out and Premarking

21	Lines (excluding traffic island markings, characters and symbols)	km	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				

22	Special markings disable symbols, etc.	No	15		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 15				

CARPORTS

23	300 x 300 x 900mm Mass concrete base (15Mpa/19mm) including all excavations, disposal, etc	No	50		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 50				

24	75 x 75 x 3.5mm Mild steel square hollow section column, 3600mm high with 200 x 200 x 4mm thick base plate welded on and cast 600mm deep into concrete base (elsewhere measured)	No	50		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 50				

25	75 x 75 x 3.5mm Mild steel hollow section beams 8000mm long welded to columns (elsewhere measured)	No	174		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 174				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

26	50 x 50x 2mm Mild steel square hollow section purlins bent to radius and spanning about 7000mm wide welded at both ends to steel beams (elsewhere measured)	No	144		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 144				
	<u>0,55mm "Global Roofing Solutions 700mm cover Klip-Tite" galvanised troughed sheeting steel Z200 spelter ISQ 550 "Chromadek - Traffic Green" finish on one side, topcoat and pebble grey backing coat roof sheeting in single lengths fixed to 76 x 50mm purlins or rails and 0,55mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions</u>				
27	Roof coverings with pitch not exceeding 25 degrees	m2	350		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 350				
	<u>PAINTING</u>				
	<u>Prepare and apply one coat zinc chromate primer, one undercoat and two coats high gloss enamel paint</u>				
28	On steel members not exceeding 300mm girth	m	1,154		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1154				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

FLAGPOLES

29	Excavate in earth not exceeding 2m deep below natural, excavated or reduced ground level and depositing excavated material in stock piles on site	m3	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
30	25MPa/19mm mass concrete in bases	m3	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				
31	200mm Diameter x 10m long	No	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				
32	50mm Diameter mild steel pully wheel	No	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				
33	100mm T-bracket screwed to flag pole	No	3		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 3				
34	Standard size 900 x 600mm South African national flag for flagpole.	No	1		
	1 : 0 2 : 0 A : 0 B : 0				
	C : 0 E : 0 G : 0 H : 0				
	I : 0 L : 0 M : 0 N : 0				
	O : 0 X : 1				

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

35 Standard size 900 x 600mm Limpopo Provincial
Government flag for flagpole.

No

1

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 1

36 Standard size 900 x 600mm Matamela Ramaphosa
Secondary School logo flag for flagpole.

No

1

1 : 0 2 : 0 A : 0 B : 0
C : 0 E : 0 G : 0 H : 0
I : 0 L : 0 M : 0 N : 0
O : 0 X : 1

Carried to Collection

R

Section No. 3
EXTERNAL WORKS
Bill No. 6
PARKING AND PAVING

[illegible]

-262-

	<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	5,139		
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water		Item		
	<u>FILLING ETC</u>				
	<u>Approved G7 filling obtained from the commercial source, compacted in 150mm layers to 93% Mod AASHTO density</u>				
8	Backfilling behind retaining walls	m3	2,055		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
9	Surface blinding under footings and bases	m3	400		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
10	Retaining walls in foundations (Provisional)	m3	150		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>Rough formwork to sides</u>				
11	Retaining walls in foundations	m2	1,931		
	<u>TEST CUBES</u>				
12	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	70		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
Carried to Collection				R	
Section No. 3 EXTERNAL WORKS Bill No. 7 RETAINING WALLS					

-264-

Carried to Collection

Section No. 3
EXTERNAL WORKS
Bill No. 7
RETAINING WALLS

[illegible]

-267-

[illegible]

[illegible]

-270-

-271-

	<u>160mmØ</u>				
4	Material	m	620		
5	Install	m	620		
	<u>90 Degree long radius bends for high-density polyethylene (HDPE) Flexible Sleeve Piping</u>				
	<u>160mmØ</u>				
6	Material		Item		
7	Install		Item		
	<u>Manholes</u>				
	<u>Construction of manholes, complete with heavy duty steel lid</u>				
	<u>1000 x 1000 x 1000 Brick Manhole (underground junction box) For Electrical Cables</u>				
8	Material		Item		
9	Install		Item		
	<u>Excavation</u>				
	<u>Restricted excavation in all material Exceeding 0,0m up to 3m</u>				
10	Scanning for Existing Services and Soil Type			SUM	
	<u>Hard rock</u>				
11	Material	m3	210		
12	Install	m3	210		
	<u>Soft soil</u>				
13	Material	m3	210		
14	Install	m3	210		
	Carried to Collection			R	
	Section No. 4 ELECTRICAL WORKS Bill No. 1 MAIN SUPPLY				

Backfilling

Imported River Sand for Bedding Above/Below Electrical Cables

15	Material	m3	48
16	Install	m3	48
17	Selected and Approved Material From The Excavations, in Backfilling in Trenches, to Specified density	m3	162

External Lighting

External Lighting

18	Material		Item
19	Install		Item
	<u>25m Steel mast with maintenance stairs</u>		
20	Material		Item
21	Install		Item

Test and Commissioning

22	<u>Test and Commissioning</u>			SUM
----	-------------------------------	--	--	-----

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 1
MAIN SUPPLY

[illegible]

-275-

Carried to Collection

[illegible]

<u>Wiring and Conduits</u>							
<u>The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.</u>							
<u>Cabling</u>							
<u>2.5mm² Bare Copper Earth Wire</u>							
26	Material	m	200				
27	Install	m	200				
<u>2.5mm² 3Core PVC SWA Cable</u>							
28	Material	m	200				
29	Install	m	200				
<u>4mm² Bare Copper Earth Wire</u>							
30	Material	m	200				
31	Install	m	200				
<u>4mm² 3Core PVC SWA Cable</u>							
32	Material	m	200				
33	Install	m	200				
<u>10mm² 3core PVC SWA Cable</u>							
34	Material	m	400				
35	Install	m	400				
<u>Cable Terminations</u>							
<u>2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>							
36	Material	m	4				
37	Install	m	4				
Carried to Collection						R	
Section No. 4 ELECTRICAL WORKS Bill No. 2 ADMIN BLOCK							

-279-

-280-

Carried to Collection

80	<p><u>Testing and commissioning</u></p> <p>Testing and commissioning</p>		SUM	
	<p>Section No. 4 ELECTRICAL WORKS Bill No. 2 ADMIN BLOCK</p>	<p>Carried to Collection</p>	R	

[illegible]

-284-

-285-

-286-

-287-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>				
38	Material	Sets	4.0		
39	Install	Sets	4.0		
	<u>4mm² 3Core PVC SWA Cable + 4mm² Bare Copper Earth Wire per 100</u>				
40	Material	Sets	4.0		
41	Install	Sets	4.0		
	<u>10mm² 3core PVC insulated SWA cable per 100</u>				
42	Material	Sets	4.0		
43	Install	Sets	4.0		
	<u>Conduits and Accessories</u>				
	<u>20mm diameter PVC Conduit Pipe</u>				
44	Material	m	400		
45	Install	m	400		
	<u>20mm diameter PVC Couplings per 100</u>				
46	Material	Sets	10.0		
47	Install	Sets	10.0		
	<u>20mm diameter PVC Adaptors per 100</u>				
48	Material	Sets	10.0		
49	Install	Sets	10.0		
	<u>20mm diameter Steel Saddles per 100</u>				
50	Material	Sets	5.0		
51	Install	Sets	5.0		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 3 NUTRITION CENTRE					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>20mm diameter round galvinised conduit box</u>				
52	Material	Sets	5.0		
53	Install	Sets	5.0		
	<u>20mm diameter round galvinised conduit box</u>				
54	Material	Sets	10.0		
55	Install	Sets	10.0		
	<u>100 x 50 x 50mm deep wall box</u>				
56	Material	Sets	2.0		
57	Install	Sets	2.0		
	<u>White cover plate 100 x 50 x 50mm deep wall box</u>				
58	Material	Sets	2.0		
59	Install	Sets	2.0		
	<u>White cover plate for 20mm round conduit box</u>				
60	Material	Sets	2.0		
61	Install	Sets	2.0		
	<u>Power Skirting</u>				
	<u>Two Compartement steel straight length power skirting complete with cover surface mounted to brickwork or concrete(Grey)</u>				
62	Material	m	15		
63	Install	m	15		
	<u>Two Compartement steel 90deg vertical bend (Grey)</u>				
64	Material		Item		
65	Install		Item		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 3 NUTRITION CENTRE					

	<u>Two Compartement steel 90deg grey internal/external bend</u>			
66	Material	Item		
67	Install	Item		
	<u>Two Compartement steel grey vertical tee-piece</u>			
68	Material	Item		
69	Install	Item		
	<u>Two Compartement steel grey end cap</u>			
70	Material	Item		
71	Install	Item		
	<u>Fire Detection</u>			
	<u>Fire extinguisher</u>			
72	Material	Item		
73	Install	Item		
	<u>Statutory Signage</u>			
74	Material	Item		
75	Install	Item		
	<u>ACCESOIRE</u>			
	<u>DB Blanks</u>			
76	Material	Item		
77	Install	Item		
	<u>DB Lable Booklets</u>			
78	Material	Item		
79	Install	Item		
Carried to Collection			R	
Section No. 4 ELECTRICAL WORKS Bill No. 3 NUTRITION CENTRE				

[illegible]

[illegible]

-293-

-294-

16	Install		Item	
<u>Lightning Protection</u>				
Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.				
17	Soil Resistivity Tests			SUM
18	Complete earth test measurements and provide certificate of compliance for completed lightning protection installation			SUM
19	Marked up as Built drawings of lightning protection installation			SUM
<u>25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor</u>				
20	Material	m	100	
21	Install	m	100	
<u>Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m, Complete with termination, lug, clamp, bolts, etc.</u>				
22	Material		Item	
23	Install		Item	
<u>40mm² PVC Conduit pipes</u>				
24	Material	m	50	
25	Install	m	50	
Carried to Collection				R
Section No. 4 ELECTRICAL WORKS Bill No. 4 CLASSROOM HALL				

<u>Wiring and Conduits</u>					
The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.					
<u>Cabling</u>					
<u>2.5mm² Bare Copper Earth Wire</u>					
26	Material	m	100		
27	Install	m	100		
<u>2.5mm² 3Core PVC SWA Cable</u>					
28	Material	m	100		
29	Install	m	100		
<u>4mm² Bare Copper Earth Wire</u>					
30	Material	m	100		
31	Install	m	100		
<u>4mm² 3Core PVC SWA Cable</u>					
32	Material	m	100		
33	Install	m	100		
<u>10mm² 3core PVC SWA Cable</u>					
34	Material	m	400		
35	Install	m	400		
<u>Cable Terminations</u>					
<u>2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>					
36	Material	Sets	4.0		
37	Install	Sets	4.0		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 4 CLASSROOM HALL					

-297-

Carried to Collection

[illegible]

[illegible]

-301-

	<u>Socket outlets and isolators installed in brickwork complete with cover plate and flush galvanized wall box</u>					
	<u>16A Single Three-pin switched flush mounted socket outlet</u>					
5	Material	No	36			
6	Install	No	36			
	<u>16A Double Three-pin switched flush mounted socket outlet</u>					
7	Material	No	25			
8	Install	No	25			
	<u>Isolators</u>					
	<u>32A 2-pole isolator</u>					
9	Material	No	4			
10	Install	No	4			
	<u>Lighting</u>					
	<u>Lighting should be installed and wired in according to SANS 10142 and SANS 10400</u>					
	<u>Supply, installation and comission of energy saving lights and light switches</u>					
	<u>2x22W T8 LED Tube</u>					
11	Material			Item		
12	Install			Item		
	<u>18W LED Rectangular Bulkhead Light Complete With Vandal-Proof Screws Equal To Bekabulk or Similar Approved</u>					
13	Material			Item		
14	Install			Item		
	Carried to Collection				R	
	Section No. 4 ELECTRICAL WORKS Bill No. 5 COMPUTER & LIBRARY					

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Lightning Protection

Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.

27	Soil Resistivity Tests			SUM
28	Complete earth test measurements and provide certificate of compliance for completed lightning protection installation			SUM
29	Marked up as Built drawings of lightning protection installation			SUM
	<u>25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor</u>			
30	Material	m	80	
31	Install	m	80	
	<u>Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m, Complete with termination, lug, clamp, bolts, etc.</u>			
32	Material		Item	
33	Install		Item	
	<u>40mm² PVC Conduit pipes</u>			
34	Material	m	80	
35	Install	m	80	

Wiring and Conduits

The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 5
COMPUTER & LIBRARY

	<u>Cabling</u>				
	<u>2.5mm² Bare Copper Earth Wire</u>				
36	Material	m	200		
37	Install	m	200		
	<u>2.5mm2 3Core PVC SWA Cable</u>				
38	Material	m	200		
39	Install	m	200		
	<u>4mm² Bare Copper Earth Wire</u>				
40	Material	m	200		
41	Install	m	200		
	<u>4mm2 3Core PVC SWA Cable</u>				
42	Material	m	200		
43	Install	m	200		
	<u>10mm2 3core PVC SWA Cable</u>				
44	Material	m	200		
45	Install	m	200		
	<u>Cable Terminations</u>				
	<u>2.5mm2 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>				
46	Material	Sets	4.0		
47	Install	Sets	4.0		
	<u>4mm2 3Core PVC SWA Cable + 4mm² Bare Copper Earth Wire per 100</u>				
48	Material	Sets	4.0		
49	Install	Sets	4.0		
	Carried to Collection			R	
	Section No. 4				
	ELECTRICAL WORKS				
	Bill No. 5				
	COMPUTER & LIBRARY				

-306-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>100 x 50 x 50mm deep wall box</u>				
64	Material	Sets	2.0		
65	Install	Sets	2.0		
	<u>White cover plate 100 x 50 x 50mm deep wall box</u>				
66	Material	Sets	2.0		
67	Install	Sets	2.0		
	<u>White cover plate for 20mm round conduit box</u>				
68	Material	Sets	2.0		
69	Install	Sets	2.0		
	<u>Power Skirting</u>				
	<u>Two Compartement steel straight length power skirting complete with cover surface mounted to brickwork or concrete(Grey)</u>				
70	Material	m	120		
71	Install	m	120		
	<u>Two Compartement steel 90deg vertical bend (Grey)</u>				
72	Material		Item		
73	Install		Item		
	<u>Two Compartement steel 90deg grey internal/external bend</u>				
74	Material		Item		
75	Install		Item		
	<u>Two Compartement steel grey vertical tee-piece</u>				
76	Material		Item		
77	Install		Item		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 5 COMPUTER & LIBRARY					

[illegible]

92	<p><u>Testing and commissioning</u></p> <p>Testing and commissioning</p>		SUM	
	<p>Carried to Collection</p> <p>Section No. 4 ELECTRICAL WORKS Bill No. 5 COMPUTER & LIBRARY</p>		R	

[illegible]

-311-

-312-

	<u>2x4 Two Lever Recessed Mounted Switch One Way</u>				
15	Material		Item		
16	Install		Item		
	<u>10A Photocell Switch</u>				
17	Material		Item		
18	Install		Item		
	<u>Lightning Protection</u>				
	Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.				
19	Soil Resistivity Tests			SUM	
20	Complete earth test measurements and provide certificate of compliance for completed lightning protection installation			SUM	
21	Marked up as Built drawings of lightning protection installation			SUM	
	<u>25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor</u>				
22	Material	m	80		
23	Install	m	80		
	<u>Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m. Complete with termination, lug, clamp, bolts, etc.</u>				
24	Material		Item		
25	Install		Item		
	Carried to Collection			R	
	Section No. 4 ELECTRICAL WORKS Bill No. 6 SCIENCE LAB				

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>				
38	Material	Sets	4.0		
39	Install	Sets	4.0		
	<u>4mm² 3Core PVC SWA Cable + 4mm² Bare Copper Earth Wire per 100</u>				
40	Material	Sets	4.0		
41	Install	Sets	4.0		
	<u>10mm² 3core PVC insulated SWA cable per 100</u>				
42	Material	Sets	4.0		
43	Install	Sets	4.0		
	<u>Conduits and Accessories</u>				
	<u>20mm diameter PVC Conduit Pipe</u>				
44	Material	m	400		
45	Install	m	400		
	<u>20mm diameter PVC Couplings per 100</u>				
46	Material	Sets	10.0		
47	Install	Sets	10.0		
	<u>20mm diameter PVC Adaptors per 100</u>				
48	Material	Sets	10.0		
49	Install	Sets	10.0		
	<u>20mm diameter Steel Saddles per 100</u>				
50	Material	Sets	5.0		
51	Install	Sets	5.0		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 6 SCIENCE LAB					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>20mm diameter round galvinised conduit box</u>				
52	Material	Sets	5.0		
53	Install	Sets	5.0		
	<u>20mm diameter round galvinised conduit box</u>				
54	Material	Sets	10.0		
55	Install	Sets	10.0		
	<u>100 x 50 x 50mm deep wall box</u>				
56	Material	Sets	2.0		
57	Install	Sets	2.0		
	<u>White cover plate 100 x 50 x 50mm deep wall box</u>				
58	Material	Sets	2.0		
59	Install	Sets	2.0		
	<u>White cover plate for 20mm round conduit box</u>				
60	Material	Sets	2.0		
61	Install	Sets	2.0		
	<u>Power Skirting</u>				
	<u>Two Compartement steel straight length power skirting complete with cover surface mounted to brickwork or concrete(Grey)</u>				
62	Material	m	80		
63	Install	m	80		
	<u>Two Compartement steel 90deg vertical bend (Grey)</u>				
64	Material		Item		
65	Install		Item		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 6 SCIENCE LAB					

[illegible]

[illegible]

[illegible]

-320-

-321-

16	Install		Item	
	<u>Lightning Protection</u>			
	Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.			
17	Soil Resistivity Tests			SUM
18	Complete earth test measurements and provide certificate of compliance for completed lightning protection installation			SUM
19	Marked up as Built drawings of lightning protection installation			SUM
	<u>25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor</u>			
20	Material	m	100	
21	Install	m	100	
	<u>Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m, Complete with termination, lug, clamp, bolts, etc.</u>			
22	Material		Item	
23	Install		Item	
	<u>40mm² PVC Conduit pipes</u>			
24	Material	m	50	
25	Install	m	50	
Carried to Collection				R
Section No. 4 ELECTRICAL WORKS Bill No. 7 CLASSROOM BLOCK 1				

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Wiring and Conduits

The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.

Cabling

2.5mm² Bare Copper Earth Wire

26	Material	m	100
27	Install	m	100

2.5mm² 3Core PVC SWA Cable

28	Material	m	100
29	Install	m	100

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 7
CLASSROOM BLOCK 1

[illegible]

-325-

[illegible]

-327-

Carried to Collection

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100</u>				
38	Material	Sets	4.0		
39	Install	Sets	4.0		
	<u>4mm² 3Core PVC SWA Cable + 4mm² Bare Copper Earth Wire per 100</u>				
40	Material	Sets	4.0		
41	Install	Sets	4.0		
	<u>10mm² 3core PVC insulated SWA cable per 100</u>				
42	Material	Sets	4.0		
43	Install	Sets	4.0		
	<u>Conduits and Accessories</u>				
	<u>20mm diameter PVC Conduit Pipe</u>				
44	Material	m	400		
45	Install	m	400		
	<u>20mm diameter PVC Couplings per 100</u>				
46	Material	Sets	10.0		
47	Install	Sets	10.0		
	<u>20mm diameter PVC Adaptors per 100</u>				
48	Material	Sets	10.0		
49	Install	Sets	10.0		
	<u>20mm diameter Steel Saddles per 100</u>				
50	Material	Sets	5.0		
51	Install	Sets	5.0		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 8 MULTI PURPOSE HALL					

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>20mm diameter round galvinised conduit box</u>				
52	Material	Sets	5.0		
53	Install	Sets	5.0		
	<u>20mm diameter round galvinised conduit box</u>				
54	Material	Sets	10.0		
55	Install	Sets	10.0		
	<u>100 x 50 x 50mm deep wall box</u>				
56	Material	Sets	2.0		
57	Install	Sets	2.0		
	<u>White cover plate 100 x 50 x 50mm deep wall box</u>				
58	Material	Sets	2.0		
59	Install	Sets	2.0		
	<u>White cover plate for 20mm round conduit box</u>				
60	Material	Sets	2.0		
61	Install	Sets	2.0		
	<u>Power Skirting</u>				
	<u>Two Compartement steel straight length power skirting complete with cover surface mounted to brickwork or concrete(Grey)</u>				
62	Material	m	80		
63	Install	m	80		
	<u>Two Compartement steel 90deg vertical bend (Grey)</u>				
64	Material		Item		
65	Install		Item		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 8 MULTI PURPOSE HALL					

	<u>Two Compartement steel 90deg grey internal/external bend</u>			
66	Material	Item		
67	Install	Item		
	<u>Two Compartement steel grey vertical tee-piece</u>			
68	Material	Item		
69	Install	Item		
	<u>Two Compartement steel grey end cap</u>			
70	Material	Item		
71	Install	Item		
	<u>Fire Detection</u>			
	<u>Fire extinguisher</u>			
72	Material	Item		
73	Install	Item		
	<u>Statutory Signage</u>			
74	Material	Item		
75	Install	Item		
	<u>ACCESOIRE</u>			
	<u>DB Blanks</u>			
76	Material	Item		
77	Install	Item		
	<u>DB Lable Booklets</u>			
78	Material	Item		
79	Install	Item		
	Carried to Collection		R	
	Section No. 4 ELECTRICAL WORKS Bill No. 8 MULTI PURPOSE HALL			

Carried to Collection

Section No. 4
ELECTRICAL WORKS
Bill No. 8
MULTI PURPOSE HALL

[illegible]

-334-

-335-

16	Install		Item		
	<u>Lightning Protection</u>				
	Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.				
17	Soil Resistivity Tests			SUM	
18	Complete earth test measurements and provide certificate of compliance for completed lightning protection installation			SUM	
19	Marked up as Built drawings of lightning protection installation			SUM	
	<u>25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor</u>				
20	Material	m	100		
21	Install	m	100		
	<u>Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m, Complete with termination, lug, clamp, bolts, etc.</u>				
22	Material		Item		
23	Install		Item		
	<u>40mm² PVC Conduit pipes</u>				
24	Material	m	100		
25	Install	m	100		
Carried to Collection				R	
Section No. 4 ELECTRICAL WORKS Bill No. 9 CLASSROOM BLOCK 2					

Wiring and Conduits

The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.

Cabling

2.5mm² Bare Copper Earth Wire

26	Material	m	100
----	----------	---	-----

27	Install	m	100
----	---------	---	-----

2.5mm² 3Core PVC SWA Cable

28	Material	m	100
----	----------	---	-----

29	Install	m	100
----	---------	---	-----

4mm² Bare Copper Earth Wire

30	Material	m	100
----	----------	---	-----

31	Install	m	100
----	---------	---	-----

4mm² 3Core PVC SWA Cable

32	Material	m	100
----	----------	---	-----

33	Install	m	100
----	---------	---	-----

10mm² 3core PVC SWA Cable

34	Material	m	400
----	----------	---	-----

35	Install	m	400
----	---------	---	-----

Cable Terminations

2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100

36	Material	Sets	4.0
----	----------	------	-----

37	Install	Sets	4.0
----	---------	------	-----

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 9
CLASSROOM BLOCK 2

-338-

-339-

[illegible]

[illegible]

-342-

-343-

Lightning Protection

Allow for complete earthing and lightning protection of the building, including bonding of the reinforcing steel and steel columns. Total cost for the provision of lightning points for the building as indicated on the layout drawings and specific drawings including testing and issuance of certificates thereof. Contractors shall allow for the installation and testing to be performed by approved specialists similar.

SUM

SUM

SUM

25mm² Green/Yellow PVC Insulated Earth Wire to be installed by Electrical Contractor

20	Material	m	100
----	----------	---	-----

21	Install	m	100
----	---------	---	-----

Earth Electrode Rod, copper. Diameter: 12 mm. Length: 1.2 m, Complete with termination, lug, clamp, bolts, etc.

22	Material	Item
----	----------	------

23	Install	Item
----	---------	------

40mm² PVC Conduit pipes

24	Material	m	100
----	----------	---	-----

25	Install	m	100
----	---------	---	-----

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 10
CLASSROOM BLOCK 3

Wiring and Conduits

The rates for cable trays shall include for hangers, splices, jointing, drilling; Conduit includes all bends, tee-pieces, joints, locknuts etc.

Cabling

2.5mm² Bare Copper Earth Wire

26	Material	m	100
----	----------	---	-----

27	Install	m	100
----	---------	---	-----

2.5mm² 3Core PVC SWA Cable

28	Material	m	100
----	----------	---	-----

29	Install	m	100
----	---------	---	-----

4mm² Bare Copper Earth Wire

30	Material	m	100
----	----------	---	-----

31	Install	m	100
----	---------	---	-----

4mm² 3Core PVC SWA Cable

32	Material	m	100
----	----------	---	-----

33	Install	m	100
----	---------	---	-----

10mm² 3core PVC SWA Cable

34	Material	m	400
----	----------	---	-----

35	Install	m	400
----	---------	---	-----

Cable Terminations

2.5mm² 3Core PVC SWA Cable + 2.5mm² Bare Copper Earth Wire per 100

36	Material	Sets	4.0
----	----------	------	-----

37	Install	Sets	4.0
----	---------	------	-----

Carried to Collection

R

Section No. 4
ELECTRICAL WORKS
Bill No. 10
CLASSROOM BLOCK 3

-346-

-347-

[illegible]

[illegible]

Carried to Final Summary

-351-

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

19	Install	No	3		
	<u>Round bend Ø600mm</u>				
20	Supply	No	1		
21	Install	No	1		
	<u>Spigot</u>				
	<u>Ø300mm</u>				
22	Supply	No	3		
23	Install	No	3		
	<u>Ø250mm</u>				
24	Supply	No	1		
25	Install	No	1		
	<u>Ø200mm</u>				
26	Supply	No	2		
27	Install	No	2		
	<u>Duct Accessories</u>				
	Including all accessories, fittings, installation, etc to ensure a fully functioning system as per the specifications and relevant standards.				
	<u>1500mm long accoustic flexible ducting including two clamps</u>				
	<u>Ø150</u>				
28	Supply	No	25		
29	Install	No	25		
	<u>Ø200</u>				
30	Supply	No	4		
Carried to Collection				R	
Section No. 5 MECHANICAL WORKS Bill No. 1 HVAC					

-354-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

	<u>Extract Air Fan 899 l/s @ 350 Pa</u>				
40	Supply	No	1		
41	Install	No	1		
	<u>Extract Air Fan 78 l/s @ 50 Pa</u>				
42	Supply	No	2		
43	Install	No	2		
	<u>Fresh Air Fan 11,5 l/s @ 50 Pa</u>				
44	Supply	No	2		
45	Install	No	2		
	<u>Wall Fan, C/W outdoor louver sized to suite fan, all required accessories to ensure a fully functional installation and suitable electrical connection wiring (3m long) between isolator and fan terminals, tested, installed and commissioned in position as per specification.</u>				
	<u>Extract Air Fan 78 l/s @ 50 Pa</u>				
46	Supply	No	1		
47	Install	No	1		
	<u>Extract Air Fan 86 l/s @ 50 Pa</u>				
48	Supply	No	3		
49	Install	No	3		
	<u>Fresh Air Fan 12,5 l/s @ 50 Pa</u>				
50	Supply	No	3		
51	Install	No	3		
	<u>Fresh Air Fan 11,5 l/s @ 50 Pa</u>				
52	Supply	No	1		
Carried to Collection					R
Section No. 5 MECHANICAL WORKS Bill No. 1 HVAC					

Carried to Collection

-357-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

5.73 kW (Nominal Cooling capacity) including
wallsleeve, outdoor louver and all accessories required
to ensure a fully functioning system.

76 Supply No 4

77 Install No 4

Midwall split Units:

MWU 01 - 04

3.10 kW (Nominal Cooling capacity) including all
accessories

78 Supply No 4

79 Install No 4

MWU 05 - 08

2.10 kW (Nominal Cooling capacity) including all
accessories

80 Supply No 4

81 Install No 4

MWU 09

1.7 kW (Nominal Cooling capacity) including all
accessories

82 Supply No 1

83 Install No 1

MWU 10

1.3 kW (Nominal Cooling capacity) including all
accessories

84 Supply No 1

85 Install No 1

MWU 11

Carried to Collection

R

Section No. 5
MECHANICAL WORKS
Bill No. 1
HVAC

Carried to Collection

Section No. 5
MECHANICAL WORKS
Bill No. 1
HVAC

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Refrigerant piping

For rate purposes only, actual refrigerant piping to be included in AC unit Price as per item No 10 (AC unit) Refrigerant bundles complete with control wiring, fixing accessories, insulation, etc. to ensure a fully functioning system.

Under Ceiling units

96	Supply	m	195
----	--------	---	-----

97	Install	m	195
----	---------	---	-----

Midwall units

98	Supply	m	218
----	--------	---	-----

99	Install	m	218
----	---------	---	-----

Carried to Collection

R

Section No. 5
MECHANICAL WORKS
Bill No. 1
HVAC

[illegible]

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>MECHANICAL WORKS</u>			
	<u>BILL NO.2</u>			
	<u>HOT WATER EQUIPMENT</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>SOLAR SYSTEM</u>			
	<p><u>Including electrical termination, Installation, Connection of water pipes, Sheet metal cover as per drawing detail. And all accessories required to ensure a fully functioning system</u></p>			
	<u>150lt solar system, up to 400 kPa, 2kw Element</u>			
1	Supply	No	2	
2	Install	No	2	
	<u>300lt solar system, up to 400 kPa, 3kw Element</u>			
3	Supply	No	1	
4	Install	No	1	
	<u>COPPER PIPING</u>			
	<u>32 mm ϕ Copper piping</u>			
5	Supply	m	40	
	Carried to Collection			R
	Section No. 5			
	MECHANICAL WORKS			
	Bill No. 2			
	HOT WATER EQUIPMENT			

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

6	Install	m	40		
	<u>28 mm ϕ Copper piping</u>				
7	Supply	m	60		
8	Install	m	60		
	<u>22 mm ϕ Copper piping</u>				
9	Supply	m	85		
10	Install	m	85		
	<u>15 mm ϕ Copper piping</u>				
11	Supply	m	25		
12	Install	m	25		
	<u>uPVC PIPING</u>				
	<u>32 mm ϕ Copper piping</u>				
13	Supply	m	10		
14	Install	m	10		
	<u>28 mm ϕ Copper piping</u>				
15	Supply	m	15		
16	Install	m	15		
	<u>22 mm ϕ Copper piping</u>				
17	Supply	m	10		
18	Install	m	10		
	<u>15 mm ϕ Copper piping</u>				
19	Supply	m	5		
20	Install	m	5		
Carried to Collection				R	
Section No. 5 MECHANICAL WORKS Bill No. 2 HOT WATER EQUIPMENT					

-364-

Carried to Collection

R

[illegible]

-367-

Fire Hose Reel

Including testing, certification, installation as per the relevant SANS standards

30m Ø25 Hosereel

5	Supply	No	9
6	Install	No	9

Fire Signage

Installation as per the relevant SANS standards

Fire signs

7	Supply	LOT	100
8	Install	LOT	100

GAS

Including testing, certification, installation as per the relevant SANS standards

LPG Cylinders

9	Supply	No	2
10	Install	No	2

Copper tubing

11	Supply	m	50
12	Install	m	50

Isolating ball valves

13	Supply	No	4
14	Install	No	4

Carried to Collection

R

Section No. 5
MECHANICAL WORKS
Bill No. 3
FIRE PROTECTION EQUIPMENT

Carried to Collection

Section No. 5
MECHANICAL WORKS
Bill No. 3
FIRE PROTECTION EQUIPMENT

[illegible]

Bill No	Section No. 5		Page No	Amount	
	MECHANICAL WORKS				
	<u>SECTION SUMMARY - MECHANICAL WORKS</u>				
	1	HVAC			361
	2	HOT WATER EQUIPMENT			366
	3	FIRE PROTECTION EQUIPMENT			370

Item No		Quantity	Rate	Amount
	<u>SECTION NO.6</u>			
	<u>OHS COMPLIANCE</u>			
	<u>BILL NO.1</u>			
	<u>FIXED CHARGE ITEMS</u>			
1	'Project specific SHE plan and safety file based on the H & S specification.'		SUM	
	<u>Site Establishment</u>			
	<u>Personal Protective Equipment</u>			
2	Medical Fitness Examinations (Entry & Exit)		SUM	
	<u>Signage and boards</u>			
3	Safety Signs	No	1	
	<u>Training and awareness</u>			
4	Health and Safety Training Awareness		SUM	
5	'HIV/AIDS awareness and accommodation needs, posters and distribution of condoms.		SUM	
	<u>Appointments</u>			
6	Registered CHSO		SUM	
7	'Competent SHE REP with a SHE certificate'		SUM	
8	'First Aider with level 1,2,3 Certificate'		SUM	
9	'Health Isolation room and Guard-house'	No	1	
	<u>Housekeeping</u>			
10	'Barricading of rubble, use a 1m height and 200m long orange net'		SUM	
	Carried to Collection		R	
	Section No. 6 OHS Bill No. 1 OHS COMPLIANCE			

[illegible]

[illegible]

-375-

**MATAMELA RAMAPHOSA SECONDARY SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)**

**THE FOLLOWING PROVISIONAL SUMS ARE FOR
WORK TO BE EXECUTED BY SELECTED
SUBCONTRACTORS**

The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor

A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer

Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer

The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly

The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor

School Furnitures, etc

1	Provide the sum of R 3 000 000,00 (Three Million rands) for school furniture by Specialists	Item	3,000,000.00
2	Allow for giving every facility to Specialists as described	Item	
3	Allow for profit on above if required	Item	

Carried to Collection

R

Section No. 7
PROVISIONAL SUMS
Bill No. 1
PROVISIONAL SUMS

Drilling and Equipping of borehole

4	Provide a sum of R500 000,00 (Five hundred thousand rand) for the drilling and equipping of boreholes complete by Specialists	Item	500,000.00
5	Allow for giving every facility to Specialists as described	Item	
6	Allow for profit on above if required	Item	

Community Liaison Officer

7	Provide the sum of R 252 000,00 (Two Hundred Fifty two thousand rand) for community liaison officer	Item	252,000.00
8	Allow for giving every facility to Specialists as described	Item	
9	Allow for profit on above if required	Item	

CONTINGENCIES

Contingencies:

10	Provide the amount of R 5 000 000.00 (Five Million rand) for contingencies to be used by the Principal Agent in terms of clause 17 of the principal Building Agreement.	Item	5,000,000.00
----	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------	--------------

SPECIAL CONDITIONS

11	Provide the sum of R 3 000 000,00 (Three Million rand) for fluctuations in cost	Item	3,000,000.00
----	---------------------------------------------------------------------------------	------	--------------

Carried to Collection

R

Section No. 7
 PROVISIONAL SUMS
 Bill No. 1
 PROVISIONAL SUMS

-378-

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	62	
2	BUILDING WORKS	205	
3	EXTERNAL WORKS	270	
4	ELECTRICAL WORKS	350	
5	MECHANICAL WORKS	371	
6	OHS	374	
7	PROVISIONAL SUMS	378	
	Sub Total	R	
	<u>Add:</u> Value Added Tax at 15%	R	
Carried to Form of Tender		R	