

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>PRELIMINARIES</u>			
<u>BILL NO. 1</u>			
<u>MEANING OF TERMS "TENDER / TENDERER"</u>			
Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"			
<u>PRELIMINARIES</u>			
The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"			
<u>PRICING OF PRELIMINARIES</u>			
Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities			
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SECTION 1

PRELIMINARIES

BILL NO. 1

MEANING OF TERMS "TENDER / TENDERER"

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PRELIMINARIES

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

PRICING OF PRELIMINARIES

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

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

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SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

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

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

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

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

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

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

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

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

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

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"FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

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

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)

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

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

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

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

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

Clause 1.6.4 is amended by replacing it with the following:

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5 A5.0 EMPLOYER'S AGENTS

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8

Fixed: _____ Value related: _____ Time related: _____

Item

6 A6.0 SITE REPRESENTATIVE

Clause 6.0

Fixed: _____ Value related: _____ Time related: _____

Item

7 A7.0 COMPLIANCE WITH REGULATIONS

Clause 7.0

Note: A separate clause has been included in Section C : Specific Preliminaries of the **bills of quantities / lump sum document** for the **contractor** to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification

Fixed: _____ Value related: _____ Time related: _____

Item

8 A8.0 WORKS RISK

Clause 8.0

Fixed: _____ Value related: _____ Time related: _____

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9 A9.0 INDEMNITIES

Clause 9.0

Fixed: _____ Value related: _____ Time related: _____

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10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) 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</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this 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</p>
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10.6 Injury to Persons or loss of or damage to Properties

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

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

- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his 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**

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- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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

10.7.1 Damage to the works

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

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

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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

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

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11 A11.0 LIABILITY INSURANCES

Clause 11.0

Fixed: _____ Value related: _____ Time
related: _____

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12 A12.0 EFFECTING INSURANCES

Clause 12.0

Fixed: _____ Value related: _____ Time
related: _____

Item

13 A13.0 No clause

N/A

14 A14.0 SECURITY

Clause 14.0

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

14.1 In respect of contracts with a **contract sum** up to
R1 million, the **security** to be provided by the
contractor to the **employer** will be a payment reduction
of five per cent (5%) of the value certified in the
payment certificate (excluding VAT)

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

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**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**

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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: _____

EXECUTION

15 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

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

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

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

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: _____

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Item

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16 A16.0 ACCESS TO THE WORKS

Clause 16.0

Fixed: _____ Value related: _____ Time
related: _____

Item

17 A17.0 CONTRACT INSTRUCTIONS

Clause 17.0

Clause 17.1.11 is amended by deleting the words "and
the appointment of **nominated** and **selected**
subcontractors"

Fixed: _____ Value related: _____ Time
related: _____

Item

18 A18.0 SETTING OUT OF THE WORKS

Clause 18.0

Fixed: _____ Value related: _____ Time
related: _____

Item

19 A19.0 ASSIGNMENT

Clause 19.0

Fixed: _____ Value related: _____ Time
related: _____

Item

20 A20.0 NOMINATED SUBCONTRACTORS

Clause 20.0

Clause 20.1.3 is amended by replacing it with the
following:

No clause

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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21 A21.0 SELECTED SUBCONTRACTORS

Clause 21.0

Clause 21 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time
related: _____

Item

22 A22.0 EMPLOYER'S DIRECT CONTRACTORS

Clause 22.0

Fixed: _____ Value related: _____ Time
related: _____

Item

**23 A23.0 CONTRACTOR'S DOMESTIC
SUBCONTRACTORS**

Clause 23.0

Fixed: _____ Value related: _____ Time
related: _____

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COMPLETION

24 A24.0 PRACTICAL COMPLETION

Clause 24.0

Fixed: _____ Value related: _____ Time
related: _____

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25 A25.0 WORKS COMPLETION

Clause 25.0

Fixed: _____ Value related: _____ Time
related: _____

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26 **A26.0 FINAL COMPLETION**

Clause 26.0

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Clause 27.0

Fixed: _____ Value related: _____ Time
related: _____

Item

28 **A28.0 SECTIONAL COMPLETION**

Clause 28.0

Fixed: _____ Value related: _____ Time
related: _____

Item

29 **A29.0 REVISION OF DATE FOR PRACTICAL
COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value related: _____ Time
related: _____

Item

30 **A30.0 PENALTY FOR NON-COMPLETION**

Clause 30.0

Fixed: _____ Value related: _____ Time
related: _____

Item

PAYMENT

31 **A31.0 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

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Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"

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

Alternative A

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

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

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

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

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

Alternative B

31.8(B) Where **security** as a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

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

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

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

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

Clause 31.12 is amended by deleting the following:

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

Fixed: _____ Value related: _____ Time related: _____

Item

32 **A32.0 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

33 **A33.0 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Fixed: _____ Value related: _____ Time related: _____

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34 **A34.0 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

35 **A35.0 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: _____ Value related: _____ Time related: _____

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CANCELLATION

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

Clause 36.0

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

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

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

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

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

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

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

Fixed: _____ Value related: _____ Time related: _____

Item

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

Clause 37.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

38 A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

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

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

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

Fixed: _____ Value related: _____ Time related: _____

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

42 A42.0 THE SCHEDULE (DPW-04EC)

Clause 42.0

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

Fixed: _____ Value related: _____ Time related: _____

Item

SECTION B: JBCC PRELIMINARIES

B1.0 DEFINITIONS AND INTERPRETATION

43 B1.1 Definitions and interpretation

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

44 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

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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 "Form of Offer and Acceptance DPW-
 07(EC)"
 Fixed: _____ Value related: _____ Time
 related: _____

Item

B3.0 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**
 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

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56 **B3.7 Services - known**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

57 **B3.8 Services - unknown**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

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

B4.0 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

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65 **B4.5 Labour and plant records**
 Fixed: _____ Value related: _____ Time
 related: _____

Item

**B5.0 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

B6.0 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

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73 **B6.4 Plant, equipment, sheds and offices**
Fixed: _____ Value related: _____ Time
related: _____

Item

74 **B6.5 Main notice board**
Fixed: _____ Value related: _____ Time
related: _____

Item

75 **B6.6 Subcontractors' notice board**
Fixed: _____ Value related: _____ Time
related: _____

Item

B7.0 TEMPORARY SERVICES

76 **B7.1 Location**
Fixed: _____ Value related: _____ Time
related: _____

Item

77 **B7.2 Water**
Fixed: _____ Value related: _____ Time
related: _____

Item

78 **B7.3 Electricity**
Fixed: _____ Value related: _____ Time
related: _____

Item

79 **B7.4 Telecommunication facilities**
Fixed: _____ Value related: _____ Time
related: _____

Item

80 **B7.5 Ablution facilities**
Fixed: _____ Value related: _____ Time
related: _____

Item

B8.0 PRIME COST AMOUNTS

81 **B8.1 Responsibility for prime cost amounts**
Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

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B9.0 ATTENDANCE ON N/S
SUBCONTRACTORS

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

B10.0 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**

Clauses B10.3.1 and B10.3.2 are amended by replacing
"within fifteen (15) **working days** of taking possession
of the **site**" with "when submitting his priced **bills of**
quantities / lump sum document"

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Fixed: _____ Value related: _____ Time
related: _____

Item

Carried to Collection

R

Preliminaries
Bill No. 1
Preliminaries

B11.0 GENERAL

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

Fixed: _____ Value related: _____ Time
related: _____

Item

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

Carried to Collection

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Bill No. 1
Preliminaries

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

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

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

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

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

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

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

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

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

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

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12.1.13 Offices

[6.4.3] Specific requirements:

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

12.1.14 Main notice board

[6.5] Specific requirements:

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

12.1.15 Subcontractors' notice board

[6.6] A notice board is required

YES/NO

Specific requirements:

12.1.16 Water

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

YES/NO

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

YES/NO

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

YES/NO

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12.1.17 Electricity

[7.3] Option A (by **contractor**)
YES/NO

Option B (by **employer** - free of charge)
YES/NO

Option C (by **employer** - metered)
YES/NO

12.1.18 Telecommunications

[7.4] Telephone
YES/NO

Facsimile
YES/NO

E-mail
YES/NO

12.1.19 Ablution facilities

[7.5] Option A (by **contractor**)
YES/NO

Option B (by **employer**)
YES/NO

12.1.20 Protection of existing/sectionally occupied works

[11.2] Protection is required
YES/NO

12.1.21 Special attendance

[9.2] **Subcontractor** (1) details:

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 Protection of the works

[11.1] Specific requirements:

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12.1.23 Disturbance

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

12.1.24 Environmental disturbance

[11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries

[10.2] Option A (prorated)
YES/NO

Option B (calculated)
YES/NO

12.2.2 Adjustment of preliminaries

[10.3] Option A (three categories)
YES/NO

Option B (detailed breakdown)
YES/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

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Item

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Item

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104	<p>C3.0 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
105	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
106	<p>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried to Collection					
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107 C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account

Fixed: _____ Value related: _____
Time related: _____

Item

108 C7.0 ENTRANCE PERMITS TO SECURITY AREAS

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: _____ Value related: _____
Time related: _____

Item

109 C8.0 SECURITY CHECK OF PERSONNEL

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

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

Fixed: _____ Value related: _____
Time related: _____

Item

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110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or 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</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
111	<p>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>			<p style="text-align: right;">Carried to Collection</p> <p>Preliminaries Bill No. 1 Preliminaries</p>

C10.1 AWARENESS CHAMPION

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

Fixed: _____ Value related: _____
 Time related: _____

Item

C10.2 AWARENESS WORKSHOPS

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

Fixed: _____ Value related: _____
 Time related: _____

Item

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____ Value related: _____
 Time related: _____

Item

C10.4 ACCESS TO CONDOMS

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

Fixed: _____ Value related: _____
 Time related: _____

Item

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	<p>C10.5 MONITORING</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>				
112	<p>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>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)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>	Item			
113	<p style="text-align: center;">*** Page Feed ***</p>	Item			
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>View site</u>			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition purposes unless otherwise stated			
	<u>General</u>			
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent			
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent			
	Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately			
	Carried to Collection		R	
	Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]			
	Bill No. 1			
	Alterations (Provisional)			

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account.

Removal of materials

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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Removal of asbestos material

The removal of asbestos shall be carried out strictly by a certified entity, registered in accordance with the Occupational Health and Safety Act and the Asbestos Regulation.

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation, and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose.

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed of, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material.

Under no circumstances is the contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the contractor will be held responsible contractually and may further be prosecuted criminally.

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in the items for removal of asbestos material. No further claims in this regard will therefore be entertained.

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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Alterations (Provisional)

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REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	Steps	m3	19		
	1 : 0 A : 1 B : 1 C : 1				
	D : 1 E : 1 F : 1 G : 5				
	I : 3 J : 3 L : 1 O : 1				

Breaking up and removing unreinforced concrete

2	100mm Thick surface beds	m2	25		
	1 : 0 A : 1 B : 1 C : 1				
	D : 1 E : 1 F : 1 G : 7				
	I : 5 J : 5 L : 1 O : 1				

Breaking down and removing brickwork etc

3	One brick walls	m2	110		
	1 : 0 A : 5 B : 5 C : 16				
	D : 16 E : 16 F : 20 G : 20				
	I : 5 J : 5 L : 0 O : 2				

Taking out and removing doors, windows, etc., from brickwork

4	Timber single door and steel door frame not exceeding 2,5m ² from one brick wall	No	84		
	1 : 0 A : 24 B : 12 C : 4				
	D : 6 E : 4 F : 6 G : 5				
	I : 2 J : 5 L : 8 O : 8				

5	Servicing of existing steel windows with new hinges, latches, etc	No	282		
	1 : 0 A : 6 B : 8 C : 36				
	D : 24 E : 36 F : 44 G : 45				
	I : 18 J : 33 L : 24 O : 8				

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 1
 Alterations (Provisional)

R

Note: Tenderers are referred to the foregoing supplementary preambles within this trade when pricing the following item (removal of asbestos)

Taking down and removal of Asbestos by accepted removers

TAKING DOWN AND REMOVE ASBESTOS BY ACCEPTED REMOVERS

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

6	Pitched roof 10,52 x 4.17 x 1,7m high overall of timber truss and purlins, ceilings, asbestos sheet covering, ceilings and cornices, fascia and barge boards, gutters and rain water pipes	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 0		
	I : 0 J : 0 L : 0 O : 1		
7	Ditto, but pitched roof 15,34 x 7.50 x 1,7m high	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 0		
	I : 1 J : 0 L : 0 O : 0		
8	Ditto, but pitched roof 18,77 x 3.71 x 1,7m high	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 0		
	I : 0 J : 0 L : 0 O : 1		
9	Ditto, but pitched roof 29,60 x 7.50 x 1,7m high	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 1 E : 0 F : 0 G : 0		
	I : 0 J : 0 L : 0 O : 0		
10	Ditto, but pitched roof 30,82 x 7.50 x 1,7m high	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 0		
	I : 0 J : 1 L : 0 O : 0		
11	Ditto, but pitched roof 37,12 x 7.50 x 1,7m high	No	1
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 1		
	I : 0 J : 0 L : 0 O : 0		

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 1
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<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
12	Asbestos roof sheeting on pitch roof 25,60 x 13.8 x 1,7m high overall from steel and timber purlins	No	1		
	1 : 0 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 1 O : 0				
<u>Taking out and removing ironmongery</u>					
13	Pinning boards approximately 2400 x 1200mm high including fixings, etc., and cart off site	No	29		
	1 : 0 A : 0 B : 0 C : 4				
	D : 4 E : 4 F : 6 G : 5				
	I : 2 J : 2 L : 2 O : 0				
14	Chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site	No	28		
	1 : 0 A : 0 B : 0 C : 4				
	D : 4 E : 4 F : 6 G : 5				
	I : 2 J : 2 L : 1 O : 0				
<u>Taking out/off and removing sundry metalwork</u>					
15	Steel single leaf security gate not exceeding 2,5m ²	No	45		
	1 : 0 A : 4 B : 3 C : 4				
	D : 5 E : 4 F : 6 G : 5				
	I : 2 J : 4 L : 0 O : 8				
16	Steel double leaf security gate exceeding 2,5m ² and not exceeding 5m ²	No	6		
	1 : 0 A : 0 B : 0 C : 0				
	D : 2 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 4 O : 0				
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>					
17	30mm Screed from floors	m2	1,567		
	1 : 0 A : 71 B : 47 C : 198				
	D : 194 E : 198 F : 297 G : 247				
	I : 99 J : 122 L : 0 O : 95				
Carried to Collection					
Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]					
Bill No. 1					
Alterations (Provisional)					
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Mqhawe High School
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18	Internal plaster from walls and columns 1 : 0 A : 209 B : 230 C : 302 D : 311 E : 302 F : 454 G : 378 I : 151 J : 312 L : 389 O : 289	m2	3,327		
19	External plaster from walls and columns 1 : 0 A : 31 B : 0 C : 63 D : 133 E : 63 F : 0 G : 248 I : 131 J : 221 L : 287 O : 192 <u>Taking out/off and removing glass and mirrors</u>	m2	1,369		
20	Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere) 1 : 0 A : 2 B : 5 C : 34 D : 35 E : 34 F : 40 G : 43 I : 17 J : 32 L : 27 O : 0 <u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>	m2	269		
21	PVC piping not exceeding 50mm diameter 1 : 65 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 I : 0 J : 0 L : 0 O : 0	m	65		
22	PVC piping exceeding 100mm and not exceeding 200mm diameter 1 : 30 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 I : 0 J : 0 L : 0 O : 0 <u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>	m	30		
23	Vitreous china wash hand basin 1 : 16 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 I : 0 J : 0 L : 0 O : 0	No	16		

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
Bill No. 1
Alterations (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
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24	Vitreous china WC pan with cistern and flush pipe 1 : 10 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 I : 0 J : 0 L : 0 O : 0	No	10		
25	Plastic toilet seat pedestal 1 : 20 A : 0 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0 I : 0 J : 0 L : 0 O : 0	No	20		
26	<u>Taking out and remove electrical redundant conduits, wiring, etc</u> <u>Conduits, wiring, etc. from all existing blocks and dispose</u> <u>MAKING GOOD OF FINISHES, ETC</u> <u>Cleaning brickwork</u>		Item		
27	Acid cleaning internal face brickwork at dado level with high pressure cleaner and leave walls clean, in perfect condition and re-apply two coats of clear gloss face brick sealer 1 : 0 A : 30 B : 27 C : 74 D : 26 E : 74 F : 131 G : 0 I : 0 J : 0 L : 0 O : 0	m2	363		
28	Acid cleaning external face brickwork with high pressure cleaner and leave walls clean, in perfect condition 1 : 0 A : 101 B : 90 C : 247 D : 88 E : 247 F : 437 G : 0 I : 0 J : 0 L : 0 O : 0 <u>Cleaning roof tiles</u>	m2	1,210		
29	Pressure cleaning of existing tiled roof 1 : 0 A : 124 B : 83 C : 273 D : 0 E : 273 F : 475 G : 0 I : 0 J : 0 L : 0 O : 0	m2	1,229		

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
Bill No. 1
Alterations (Provisional)

R

MAKING GOOD OF EXISTING WORKS

30	Remove and replace damaged tiles	m2	22		
	1 : 0 A : 2 B : 2 C : 5				
	D : 0 E : 5 F : 8 G : 0				
	I : 0 J : 0 L : 0 O : 0				
31	Repairs to existing surface beds, including filling in cracks, with concrete crack injection or any other approved filler, stitching as required, etc	m2	30		
	1 : 0 A : 1 B : 1 C : 2				
	D : 2 E : 2 F : 2 G : 10				
	I : 4 J : 4 L : 1 O : 1				

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 1
 Alterations (Provisional)

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Mqhawe High School
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Bill No. 1

Alterations (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 1

Alterations (Provisional)

R

Compaction of surfaces

- 5 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

25

1 : 0	A : 1	B : 1	C : 1
D : 1	E : 1	F : 1	G : 7
I : 5	J : 5	L : 1	O : 1

WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

- 6 Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming

m2

25

1 : 0	A : 1	B : 1	C : 1
D : 1	E : 1	F : 1	G : 7
I : 5	J : 5	L : 1	O : 1

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 2
 Earthworks (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 2

Bill No. 2

Earthworks (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 2

Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions 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</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
<p>Carried to Collection</p> <p>Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O] Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)</p>			<p>R</p>

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/19mm concrete

1	Surface beds on waterproofing	m3	19
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 5		
	I : 3 J : 3 L : 1 O : 1		

TEST CUBES

2	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 1		
	I : 1 J : 1 L : 0 O : 0		

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

3	Surface beds, slabs, etc	m2	25
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 7		
	I : 5 J : 5 L : 1 O : 1		

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

4	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	8
	1 : 0 A : 0 B : 0 C : 0		
	D : 0 E : 0 F : 0 G : 4		
	I : 2 J : 2 L : 0 O : 0		

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 3
 Concrete, Formwork and Reinforcement (Provisional)

R

REINFORCEMENT

Fabric reinforcement

5	Type 193 fabric reinforcement in concrete surface beds etc	m2	25
	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 25%;">1 : 0</div> <div style="width: 25%;">A : 1</div> <div style="width: 25%;">B : 1</div> <div style="width: 25%;">C : 1</div> <div style="width: 25%;">D : 1</div> <div style="width: 25%;">E : 1</div> <div style="width: 25%;">F : 1</div> <div style="width: 25%;">G : 7</div> <div style="width: 25%;">I : 5</div> <div style="width: 25%;">J : 5</div> <div style="width: 25%;">L : 1</div> <div style="width: 25%;">O : 1</div> </div>		

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 3
 Concrete, Formwork and Reinforcement (Provisional)

R

Mqhawe High School
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Concrete, Formwork and Reinforcement (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 3

Concrete, Formwork and Reinforcement (Provisional)

R

ROOF AND WALL INSULATION

Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3

- 3 Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required

m2

1,792

1 : 0	A : 0	B : 0	C : 0
D : 332	E : 0	F : 0	G : 416
I : 172	J : 345	L : 430	O : 98

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 4
 Roof Coverings (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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Bill No. 4

Roof Coverings (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 4

Roof Coverings (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

1	Supply and install prefabricated timber roof truss system complete and in accordance with the Standard Building Regulations. Truss spanning 10,48 x 1,70mm high overall with 700mm eaves projection on both sides	No	96		
	1 : 0 A : 0 B : 0 C : 0				
	D : 25 E : 0 F : 0 G : 32				
	I : 13 J : 26 L : 0 O : 0				
2	Ditto, but spanning 6,16m	No	22		
	1 : 0 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 22				
	<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	277		
	1 : 0 A : 0 B : 0 C : 0				
	D : 58 E : 0 F : 0 G : 73				
	I : 29 J : 60 L : 0 O : 56				
4	50 x 76mm Purlins	m	1,793		
	1 : 0 A : 0 B : 0 C : 0				
	D : 356 E : 0 F : 0 G : 445				
	I : 184 J : 370 L : 205 O : 233				
5	38 x 114mm Bracing	m	298		
	1 : 0 A : 0 B : 0 C : 0				
	D : 62 E : 0 F : 0 G : 78				
	I : 32 J : 65 L : 0 O : 61				
	<u>Sundries</u>				
6	Wrought faces on sawn timbers	m2	42		
	1 : 0 A : 0 B : 0 C : 0				
	D : 9 E : 0 F : 0 G : 12				
	I : 5 J : 9 L : 0 O : 8				
7	Two coats creosote on sawn timbers	m2	42		
	1 : 0 A : 0 B : 0 C : 0				
	D : 9 E : 0 F : 0 G : 12				
	I : 5 J : 9 L : 0 O : 8				

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 5
 Carpentry and Joinery (Provisional)

R

EAVES, VERGES, ETC

Medium density plain fibre-cement fascias and barge boards

8	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	223		
	1 : 0 A : 17 B : 15 C : 19				
	D : 22 E : 19 F : 19 G : 22				
	I : 22 J : 22 L : 18 O : 26				

9	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	579		
	1 : 0 A : 25 B : 21 C : 59				
	D : 58 E : 59 F : 88 G : 73				
	I : 29 J : 60 L : 51 O : 56				

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to steel frames

10	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	52		
	1 : 0 A : 4 B : 2 C : 4				
	D : 6 E : 4 F : 6 G : 5				
	I : 2 J : 3 L : 8 O : 8				

Semi-solid flush doors with commercial veneer suitable for painting

11	44mm Door 813 x 2032mm high	No	40		
	1 : 0 A : 20 B : 10 C : 0				
	D : 6 E : 0 F : 0 G : 0				
	I : 0 J : 2 L : 2 O : 0				

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 5
 Carpentry and Joinery (Provisional)

R

SKIRTINGS

Wrought meranti

12 75 x 19mm skirtings including 19mm quadrant plugged

m

888

1 : 0	A : 0	B : 0	C : 109
D : 119	E : 109	F : 163	G : 136
I : 54	J : 94	L : 0	O : 103

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 5
 Carpentry and Joinery (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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Bill No. 5

Carpentry and Joinery (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 5

Carpentry and Joinery (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u> <u>CEILING, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal <u>Proprietary items or materials</u> Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head <u>NAILED-UP CEILINGS</u> <u>6,4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres <div style="display: flex; justify-content: space-between;"> <div>1 : 0</div> <div>A : 73</div> <div>B : 48</div> <div>C : 198</div> </div> <div style="display: flex; justify-content: space-between;"> <div>D : 196</div> <div>E : 198</div> <div>F : 297</div> <div>G : 247</div> </div> <div style="display: flex; justify-content: space-between;"> <div>I : 99</div> <div>J : 194</div> <div>L : 0</div> <div>O : 95</div> </div>	m2	1,646	
	<p style="text-align: right;">Carried to Collection</p> <p>Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O] Bill No. 6 Ceilings, Partitions and Access Flooring (Provisional)</p>			
			R	

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2 Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around

1 : 0	A : 2	B : 2	C : 4
D : 6	E : 4	F : 6	G : 5
I : 2	J : 4	L : 0	O : 8

No

43

Nucornice foam plastic cornices

3 75mm Coved cornices

1 : 0	A : 48	B : 50	C : 113
D : 112	E : 113	F : 169	G : 141
I : 56	J : 118	L : 0	O : 111

m

1,029

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 6
 Ceilings, Partitions and Access Flooring (Provisional)

R

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Bill No. 6

Ceilings, Partitions and Access Flooring (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 6

Ceilings, Partitions and Access Flooring (Provisional)

R

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
Bill No. 8
Ironmongery (Provisional)

Amount

R

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	WC chrome plated indicator bolt	No	30		
	1 : 0 A : 20 B : 10 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

LOCKS

Manufactured by "Union" or other equal and approved

2	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	52		
	1 : 0 A : 4 B : 3 C : 4				
	D : 5 E : 4 F : 6 G : 5				
	I : 2 J : 5 L : 6 O : 8				

SUNDRIES

Manufactured by "Union" or other equal and approved

3	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	82		
	1 : 0 A : 24 B : 13 C : 4				
	D : 5 E : 4 F : 6 G : 5				
	I : 2 J : 5 L : 6 O : 8				

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Manufactured by "Vitrex System"

4	Standard green enamel megnatic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged	No	31		
	1 : 0 A : 0 B : 0 C : 4				
	D : 6 E : 4 F : 6 G : 5				
	I : 2 J : 2 L : 2 O : 0				

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 8
 Ironmongery (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
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5 Pinning board size 2400 x 1200mm high plugged
 1 : 0 A : 0 B : 0 C : 4
 D : 8 E : 4 F : 6 G : 5
 I : 2 J : 2 L : 2 O : 0

No

33

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 8
 Ironmongery (Provisional)

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Ironmongery (Provisional)

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]

Bill No. 8

Ironmongery (Provisional)

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 11</u> <u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings <u>Stormwater channels</u> Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site <u>PVC-U pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings <u>Polypropylene pipes</u> Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings 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 <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level			
		R	
Carried to Collection Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O] Bill No. 11 Plumbing and Drainage (Provisional)			

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

Carried to Collection

Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
Bill No. 11
Plumbing and Drainage (Provisional)

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uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	562
	1 : 0 A : 25 B : 21 C : 59		
	D : 63 E : 59 F : 88 G : 74		
	I : 31 J : 62 L : 25 O : 56		
2	100mm Diameter rainwater pipes	m	169
	1 : 0 A : 11 B : 11 C : 11		
	D : 23 E : 11 F : 22 G : 23		
	I : 11 J : 11 L : 11 O : 22		
3	Extra over gutter for stopped end	No	52
	1 : 0 A : 4 B : 4 C : 4		
	D : 4 E : 4 F : 8 G : 4		
	I : 4 J : 4 L : 4 O : 8		
4	Extra over gutter for outlet for 100mm pipe	No	60
	1 : 0 A : 2 B : 2 C : 6		
	D : 6 E : 6 F : 8 G : 6		
	I : 6 J : 6 L : 4 O : 8		
5	Extra over rainwater pipe for bend	No	64
	1 : 0 A : 4 B : 4 C : 4		
	D : 8 E : 4 F : 8 G : 8		
	I : 4 J : 4 L : 8 O : 8		
6	Extra over rainwater pipe for shoe	No	60
	1 : 0 A : 2 B : 2 C : 6		
	D : 6 E : 6 F : 8 G : 6		
	I : 6 J : 6 L : 4 O : 8		

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
 Bill No. 11
 Plumbing and Drainage (Provisional)

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STORMWATER CHANNELS

Earthworks

7	Excavate average 125mm deep in earth to form "V" drain profile	m3	99
	1 : 0 A : 4 B : 4 C : 10		
	D : 12 E : 10 F : 13 G : 12		
	I : 6 J : 8 L : 12 O : 9		

Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

8	"V" drains	m3	98.9
	1 : 0.0 A : 4.3 B : 4.0 C : 9.8		
	D : 11.6 E : 9.8 F : 13.4 G : 11.6		
	I : 6.1 J : 7.9 L : 11.7 O : 8.8		

9	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	761
	1 : 0 A : 33 B : 31 C : 75		
	D : 89 E : 75 F : 103 G : 89		
	I : 47 J : 61 L : 90 O : 68		

10	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	731
	1 : 0 A : 37 B : 35 C : 79		
	D : 93 E : 79 F : 33 G : 93		
	I : 51 J : 65 L : 94 O : 72		

11	Type 193 fabric reinforcement in concrete surface beds etc	m2	761
	1 : 0 A : 33 B : 31 C : 75		
	D : 89 E : 75 F : 103 G : 89		
	I : 47 J : 61 L : 90 O : 68		

12	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	675
	1 : 0 A : 33 B : 27 C : 71		
	D : 89 E : 75 F : 29 G : 89		
	I : 47 J : 61 L : 90 O : 64		

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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 Plumbing and Drainage (Provisional)

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SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	30		
	1 : 30 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

14	110mm Pipes laid in and including trenches not exceeding 1m deep	m	190		
	1 : 190 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

Extra over normal duty (Class 51) PVC-U sewer and
drain pipes for fittings

15	110mm Bend	No	8		
	1 : 8 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

16	110mm Tee	No	1		
	1 : 1 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

17	110mm Access bend	No	7		
	1 : 7 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

18	110mm Access tee	No	1		
	1 : 1 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

19	110mm Rodding eye	No	2		
	1 : 2 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

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20	110mm Straight reducer	No	8		
	1 : 8 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
21	22mm Socket	No	6		
	1 : 6 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
22	28mm Socket	No	2		
	1 : 2 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
23	110mm Pan connector	No	8		
	1 : 8 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
24	110mm PVC tovent iron connector	No	2		
	1 : 2 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
25	110mm Vent iron cowl	No	2		
	1 : 2 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
<u>SANITARY FITTINGS</u>					
<u>"Vaal" or other equal and approved</u>					
26	School type lavatory wash hand basin fixed to wall	No	16		
	1 : 16 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
27	Low level school type wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	10		
	1 : 10 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
Carried to Collection					
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	<u>Jojo</u>								
28	Plastic toilet seat pedestal	No	20						
	1 : 20 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
	<u>WASTE UNIONS ETC</u>								
	<u>"Cobra Watertech" or other equal and approved</u>								
29	32mm 301 CP basin waste union	No	16						
	1 : 16 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
	<u>TRAPS ETC</u>								
	<u>UPVC</u>								
30	110mm Two way vent valve	No	20						
	1 : 20 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
	<u>Rubber</u>								
31	50mm "P" or "S" trap	No	16						
	1 : 16 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
	<u>TAPS, VALVES, ETC</u>								
32	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	24						
	1 : 24 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
33	22mm CP fullway isolating Valve with handle nickel plated	No	36						
	1 : 36 A : 0 B : 0 C : 0								
	D : 0 E : 0 F : 0 G : 0								
	I : 0 J : 0 L : 0 O : 0								
	Carried to Collection								
	Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]								
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34	28mm CP fullway isolating Valve with handle nickel plated	No	10		
	1 : 10 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
35	15mm 111-15CP pillar tap	No	16		
	1 : 16 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
<u>SANITARY PLUMBING</u>					
<u>uPVC soil and vent pipes</u>					
36	50mm Pipes	m	50		
	1 : 50 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
37	100mm Pipes	m	30		
	1 : 30 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
<u>Extra over uPVC soil and vent pipes for fittings</u>					
38	50mm Bend	No	6		
	1 : 6 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
39	100mm Bend	No	3		
	1 : 3 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
40	50mm Access bend	No	4		
	1 : 4 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				
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Class 1 copper pipes with capillary couplings

48	22mm Pipes				m	45
	1 : 45	A : 0	B : 0	C : 0		
	D : 0	E : 0	F : 0	G : 0		
	I : 0	J : 0	L : 0	O : 0		

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10	iC60N 32A 4P CB (A9F44432)	No	11
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 1		
	I : 1 J : 1 L : 1 O : 1		
11	iC60N 16A DP CB (AF74616)	No	66
	1 : 0 A : 6 B : 6 C : 6		
	D : 6 E : 6 F : 6 G : 6		
	I : 6 J : 6 L : 6 O : 6		
12	3P (N/O) CONTACTOR (LC1E3210U5)	No	11
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 1		
	I : 1 J : 1 L : 1 O : 1		
13	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	11
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 1		
	I : 1 J : 1 L : 1 O : 1		
14	Surge arrester, 3P+N, 350V (A9L20600)	No	11
	1 : 0 A : 1 B : 1 C : 1		
	D : 1 E : 1 F : 1 G : 1		
	I : 1 J : 1 L : 1 O : 1		
	<u>CABLES</u>		
15	1.5mm ² 3-Core	m	2,640
	1 : 0 A : 120 B : 100 C : 280		
	D : 320 E : 280 F : 420 G : 350		
	I : 140 J : 270 L : 150 O : 210		
16	2.5mm ² 3-Core	m	830
	1 : 0 A : 0 B : 0 C : 80		
	D : 100 E : 80 F : 120 G : 100		
	I : 40 J : 70 L : 80 O : 160		
17	16mm ² 3-Core	m	660
	1 : 0 A : 60 B : 60 C : 60		
	D : 60 E : 60 F : 60 G : 60		
	I : 60 J : 60 L : 60 O : 60		

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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Electrical work (Provisional)

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SUNDRIES

24 Low tension room accessories comprising first aid kit,
pair of rubber gloves and notices on door and inside the
room complying with the Occupational Health and
Safety Act, 1993

No

11

1 : 0	A : 1	B : 1	C : 1
D : 1	E : 1	F : 1	G : 1
I : 1	J : 1	L : 1	O : 1

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
Bill No. 12
Electrical work (Provisional)

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GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

25	20mm Diameter	m	3,470		
	1 : 0 A : 120 B : 100 C : 360				
	D : 420 E : 360 F : 540 G : 450				
	I : 180 J : 340 L : 230 O : 370				

PVC conduit accessories

26	Round outlet box for 20mm conduit	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				
27	Deep type (concrete type) round outlet box for 20mm conduit	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				
28	Standard draw box for 20mm conduit	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				
29	50 x 100 x 50mm Outlet box	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				
30	100 x 100 x 50mm Outlet box	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				
31	100 x 100 x 50mm Outlet box with blank cover plate	No	347		
	1 : 0 A : 12 B : 10 C : 36				
	D : 42 E : 36 F : 54 G : 45				
	I : 18 J : 34 L : 23 O : 37				

CONDUCTORS

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 Electrical work (Provisional)

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	<u>Bare copper conductors drawn into conduit, trunking or power skirting</u>						
	<u>PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>						
	<u>Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>						
32	1.5mm²	m	3,190				
	1 : 0	A : 290	B : 290	C : 290			
	D : 290	E : 290	F : 290	G : 290			
	I : 290	J : 290	L : 290	O : 290			
	<u>DRAW-WIRES</u>						
33	Galvanised steel draw-wires drawn into conduit	m	3,190				
	1 : 0	A : 290	B : 290	C : 290			
	D : 290	E : 290	F : 290	G : 290			
	I : 290	J : 290	L : 290	O : 290			
	<u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u>						
34	Flush mounted bell push button	No	11				
	1 : 0	A : 1	B : 1	C : 1			
	D : 1	E : 1	F : 1	G : 1			
	I : 1	J : 1	L : 1	O : 1			
35	16A Flush mounted one lever one-way switch unit	No	1				
	1 : 0	A : 0	B : 0	C : 1			
	D : 0	E : 0	F : 0	G : 0			
	I : 0	J : 0	L : 0	O : 0			
36	16A Flush mounted two lever one-way switch unit	No	62				
	1 : 0	A : 2	B : 3	C : 6			
	D : 6	E : 6	F : 8	G : 7			
	I : 4	J : 6	L : 4	O : 10			
37	16A Three pin flush mounted socket outlet with switch, single type	No	83				
	1 : 0	A : 0	B : 0	C : 8			
	D : 10	E : 8	F : 12	G : 10			
	I : 4	J : 7	L : 8	O : 16			

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LUMINAIRES

38	Lascon V1-100BC/C/Plas economy injection moulded polycarbonate luminaire with 100W GLS lamp	No	264		
	1 : 0 A : 12 B : 10 C : 28				
	D : 32 E : 28 F : 42 G : 35				
	I : 14 J : 27 L : 15 O : 21				

39	1kW 100A Inverter Trolley	No	22		
	1 : 0 A : 2 B : 2 C : 2				
	D : 2 E : 2 F : 2 G : 2				
	I : 2 J : 2 L : 2 O : 2				

SUNDRIES

40	Earthing of buildings		Item		
41	Provision of as built drawings		Item		
42	Testing and commissioning the complete electrical installation		Item		

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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Bill No. 12

Electrical work (Provisional)

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PAINTWORK ETC TO NEW WORK

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats PVA emulsion paint for interior use

1	Walls	m2	3,327		
	1 : 0 A : 209 B : 230 C : 302				
	D : 311 E : 302 F : 454 G : 378				
	I : 151 J : 312 L : 389 O : 289				

ON PLASTERBOARD SURFACES

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

2	Ceilings and cornices	m2	1,646		
	1 : 0 A : 73 B : 48 C : 198				
	D : 196 E : 198 F : 297 G : 247				
	I : 99 J : 194 L : 0 O : 95				

ON FIBRE-CEMENT BOARD SURFACES

Two coats alkali resistant primer and two coats superior quality acrylic paint for interior and exterior use

3	Fascias and barge boards, including priming metal jointing strips	m2	214		
	1 : 0 A : 11 B : 10 C : 21				
	D : 21 E : 21 F : 29 G : 25				
	I : 14 J : 21 L : 11 O : 29				

ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Laminated beam	m2	22		
	1 : 22 A : 0 B : 0 C : 0				
	D : 0 E : 0 F : 0 G : 0				
	I : 0 J : 0 L : 0 O : 0				

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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 Paintwork (Provisional)

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5	Doors	m2	289		
	1 : 0 A : 84 B : 45 C : 14				
	D : 21 E : 14 F : 21 G : 17				
	I : 7 J : 10 L : 28 O : 28				
	<u>One coat sanding sealer, two coats "Wooddoc" clear vanish</u>				
6	Skirting, rails, etc not exceeding 300mm girth	m	871		
	1 : 0 A : 0 B : 0 C : 109				
	D : 119 E : 109 F : 163 G : 136				
	I : 54 J : 77 L : 0 O : 103				
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
7	Walls	m2	1,369		
	1 : 0 A : 31 B : 0 C : 63				
	D : 133 E : 63 F : 0 G : 248				
	I : 131 J : 221 L : 287 O : 192				
	<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>				
	<u>ON METAL SURFACES</u>				
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
8	Door frames	m2	93		
	1 : 0 A : 27 B : 15 C : 4				
	D : 7 E : 4 F : 7 G : 6				
	I : 2 J : 3 L : 9 O : 9				
9	Windows	m2	538		
	1 : 0 A : 4 B : 10 C : 68				
	D : 70 E : 68 F : 80 G : 86				
	I : 34 J : 64 L : 54 O : 0				

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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]
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Bill No	SECTION SUMMARY - Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]	Page No	Amount
1	Alterations (Provisional)	54	
2	Earthworks (Provisional)	57	
3	Concrete, Formwork and Reinforcement (Provisional)	61	
4	Roof Coverings (Provisional)	64	
5	Carpentry and Joinery (Provisional)	69	
6	Ceilings, Partitions and Access Flooring (Provisional)	72	
7	Floor Coverings, Wall Linings, etc. (Provisional)	73	
8	Ironmongery (Provisional)	77	
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10	Plastering (Provisional)	79	
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13	Glazing (Provisional)	100	
14	Paintwork (Provisional)	104	
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Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]			

R

FILLING ETC

Compaction of surfaces

8	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 98% Mod AASHTO density	m2	121
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WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	121
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Carried to Collection

Block M - New Kitchen Block
 Bill No. 1
 Earthworks (Provisional)

R

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Section No. 3

Bill No. 1

Earthworks (Provisional)

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Block M - New Kitchen Block

Bill No. 1

Earthworks (Provisional)

R

<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>30MPa/19mm concrete</u>					
1	Ground beams	m3	12		
2	Trenches	m3	4		
3	Surface beds	m3	24		
4	Pavings	m3	4		
<u>TEST CUBES</u>					
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
6	Surface beds, slabs, etc	m2	22		
<u>Finishing top surfaces of concrete smooth with a power float</u>					
7	Surface beds, slabs, etc	m2	171		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
<u>Rough formwork to sides</u>					
8	Edges, risers, ends and reveals not exceeding 300mm high	m	813		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with 12mm bitumen impregnated softboard, including raking out polysulphate sealant</u>					
9	Not exceeding 300mm high through slabs	m	51		
Carried to Collection				R	
Block M - New Kitchen Block					
Bill No. 2					
Concrete, Formwork and Reinforcement					

REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

10	Bars in various diameter	t	0.87	
----	--------------------------	---	------	--

Fabric reinforcement

11	Type 395 fabric reinforcement in concrete surface beds etc	m2	203	
----	--	----	-----	--

Carried to Collection

Block M - New Kitchen Block
 Bill No. 2
 Concrete, Formwork and Reinforcement

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General Repairs & Renovations and
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Bill No. 2

Concrete, Formwork and Reinforcement

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Block M - New Kitchen Block

Bill No. 2

Concrete, Formwork and Reinforcement

R

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Mqhawe High School
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Construction of New Buildings

7	150mm Wide reinforcement built in horizontally <u>Prestressed fabricated concrete lintels including necessary temporary supports</u>	m	507
8	110 x 75mm Lintels in lengths not exceeding 3m <u>Galvanised wire ties etc</u>	m	21
9	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber <u>FACE BRICKWORK</u> <u>"Corobrick Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>	No	28
10	Extra over brickwork for face brickwork in foundation (Provisional)	m2	13
11	Extra over brickwork for face brickwork	m2	127
12	Extra over brickwork for brick-on-edge header course lintel pointed one side and 110mm soffit <u>Brick-on-edge header course copings, sills, etc of face bricks, pointed with recessed joints on all exposed faces</u>	m	21
13	230mm Wide sills set sloping and slightly projecting	m	7

Carried to Collection

Block M - New Kitchen Block
 Bill No. 3
 Masonry

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**Mqhawe High School
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Bill No. 3

Masonry

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Block M - New Kitchen Block

Bill No. 3

Masonry

R

Waterproofing

Block M - New Kitchen Block
Bill No. 5
Roof Coverings

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

[illegible]

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to steel frame

- 6 44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint

No

2

Semi-solid flush doors with commercial veneer suitable for painting

- 7 44mm Door 813 x 2032mm high

No

2

FITTINGS

Kitchen cupboards etc with approved hinges, handles and telescopic drawer sliders, including 32mm thick post-formed top with 0,6mm Decon Laminated in Artic Granite or similar

- 8 L-Shaped Sink kitchen cupboard overall size 7,51 x 0,9m high with top, sides, bottom, division, shelf, back and hinged doors, dividing framework, drawers etc.

No

1

Kitchen storage shelving

- 9 Bulk storage shelving overall size 3,72 x 2,00 x 0,40m

No

1

- 10 Vegetable storage shelving overall size 3,72 x 2,00 x 0,40m

No

1

- 11 Equipment storage shelving overall size 3,49 x 2,00 x 0,40m

No

1

Carried to Collection

R

Block M - New Kitchen Block
 Bill No. 6
 Carpentry and Joinery

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 3

Bill No. 6

Carpentry and Joinery

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Block M - New Kitchen Block

Bill No. 6

Carpentry and Joinery

R

**Mqhawe High School
General Repairs & Renovations and
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3	<p><u>Gypsum plasterboard cornices</u></p> <p>75mm Coved cornices</p>	m	105	
	<p style="text-align: right;">Carried to Collection</p> <p>Block M - New Kitchen Block Bill No. 7 Ceilings, Partitions and Access Flooring</p>			<p style="text-align: right;">R</p>

Mqhawe High School
General Repairs & Renovations and
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Bill No. 7

Ceilings, Partitions and Access Flooring

COLLECTION

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Block M - New Kitchen Block

Bill No. 7

Ceilings, Partitions and Access Flooring

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

LOCKS

Manufactured by "Union"

- | | | | | |
|---|---|----|---|--|
| 1 | Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles | No | 9 | |
|---|---|----|---|--|

LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

- | | | | | |
|---|---|----|---|--|
| 2 | 150 x 150mm Anodised aluminium plate with toilet symbol | No | 1 | |
|---|---|----|---|--|

SUNDRIES

Manufactured by "Union"

- | | | | | |
|---|---|----|---|--|
| 3 | 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw | No | 9 | |
|---|---|----|---|--|

BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

- | | | | | |
|---|-----------------------------|----|---|--|
| 4 | Toilet roll holder, plugged | No | 1 | |
|---|-----------------------------|----|---|--|

Carried to Collection

Block M - New Kitchen Block
 Bill No. 8
 Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
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Bill No. 8

Ironmongery

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Block M - New Kitchen Block

Bill No. 8

Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No			Quantity	Rate	Amount
	<u>BILL NO. 9</u>				
	<u>METALWORK</u>				
	<u>GALVANISED STEEL HANDRAILS</u>				
	<u>Welded handrails to stair</u>				
1	50 x 50 x 3mm Hollow section continuous rails	No	8		
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
	<u>Welded screens and gates</u>				
2	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	7		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Standard school windows with flat burglar bars to opening sashes</u>				
3	Window type 1, size 890 x 1250mm high	No	3		
4	Ditto, but type 4, size 1022 x 654mm high	No	1		
5	Ditto, but type 5, size 859 x 457mm high	No	2		
	<u>STEEL ROLLER SHUTTERS ETC</u>				
	<u>Galvanised steel roller shutters fixed to brickwork or concrete</u>				
6	Manual push-up slatted roller shutters for 2500 x 1300mm high opening	No	1		
7	Ditto, but for 2500 x 2800mm high opening	No	1		
	Carried to Collection			R	
	Block M - New Kitchen Block				
	Bill No. 9				
	Metalwork				

GALVANISED PRESSED STEEL DOOR FRAMES

Double rebated frames suitable for half brick walls

8	Frame for door 813 x 2032mm high	No	2	
---	----------------------------------	----	---	--

Double rebated frames suitable for one brick walls

9	Frame for door 813 x 2032mm high	No	7	
---	----------------------------------	----	---	--

GALVANISED STEEL MINOR WORK

Galvanised steel post, including fixing accessories to laminated timber beam and concrete floors

10	100mm Diameter x 2650mm high galvanised mild steel support post including base plates etc. with timber beam over to support roof above (Timber beam elsewhere)	No	8	
----	--	----	---	--

Carried to Collection

Block M - New Kitchen Block
 Bill No. 9
 Metalwork

R

Mqhawe High School
General Repairs & Renovations and
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Bill No. 9

Metalwork

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Block M - New Kitchen Block

Bill No. 9

Metalwork

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General Repairs & Renovations and
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Mqhawe High School
General Repairs & Renovations and
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[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
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			
Carried to Collection			
Block M - New Kitchen Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

BILL NO. 12

PLUMBING AND DRAINAGE (PROVISIONAL)

SUPPLEMENTARY PREAMBLES

Wire gratings

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

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site

PVC-U pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

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

Carried to Collection

R

Block M - New Kitchen Block

Bill No. 12

Plumbing and Drainage (Provisional)

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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block M - New Kitchen Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	51
2	100mm Diameter rainwater pipes	m	8
3	Extra over gutter for angle	No	3
4	Extra over gutter for outlet for 100mm pipe	No	2
5	Extra over rainwater pipe for bend	No	4

Carried to Collection

Block M - New Kitchen Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

<u>STORMWATER CHANNELS</u>					
<u>Earthworks</u>					
6	Excavate average 125mm deep in earth to form "V" drain profile	m3	7		
<u>Concrete, Formwork and Reinforcing</u>					
<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>					
7	"V" drains	m3	7		
8	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	51		
9	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	55		
10	Type 193 fabric reinforcement in concrete surface beds etc	m2	51		
11	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	47		
<u>SOIL DRAINAGE</u>					
<u>Normal duty (Class 51) PVC-U sewer and drain pipes</u>					
12	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	3		
13	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15		
<u>Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings</u>					
14	110mm Bend	No	5		
15	110mm Tee	No	10		
16	110mm Access bend	No	10		
Carried to Collection				R	
Block M - New Kitchen Block					
Bill No. 12					
Plumbing and Drainage (Provisional)					

**Mqhawe High School
General Repairs & Renovations and
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17	110mm Access tee	No	20	
18	110mm Rodding eye	No	5	
19	28mm Reducer	No	3	
20	110mm Straight reducer	No	10	
21	22mm Socket	No	15	
22	28mm Socket	No	2	
23	110mm Pan connector	No	5	
24	110mm PVC tovent iron connector	No	3	
25	110mm Vent iron cowl	No	2	
<u>SANITARY FITTINGS</u>				
<u>"Vaal" or other equal and approved</u>				
26	1200 x 535mm Single centre bowl sink	No	2	
<u>WASTE UNIONS ETC</u>				
<u>"Cobra Watertech" or other equal and approved</u>				
27	32mm 301 CP waste union	No	2	
<u>TRAPS ETC</u>				
<u>Rubber</u>				
28	50mm "P" or "S" trap	No	2	
<u>TAPS, VALVES, ETC</u>				
29	PA3.522 "Masterflo" pressure control valve with vacuum breaker	No	2	
30	FJ100CP "Flushmaster Junior" urinal flush valve	No	2	
31	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	1	
Carried to Collection				R
Block M - New Kitchen Block				
Bill No. 12				
Plumbing and Drainage (Provisional)				

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

32	22mm CP fullway isolating Valve with handle nickel plated	No	4		
33	28mm CP fullway isolating Valve with handle nickel plated	No	2		
34	PA3.132 "Masterflo" pressure control valve with vacuum breaker	No	1		
35	FJ2100CP Cobra Flushmaster Junior flush valve	No	1		
36	15mm 111-15CP pillar tap	No	4		
<u>SANITARY PLUMBING</u>					
<u>uPVC soil and vent pipes</u>					
37	50mm Pipes	m	15		
<u>Extra over uPVC soil and vent pipes for fittings</u>					
38	50mm Bend	No	9		
39	50mm Access bend	No	18		
40	50mm Tee	No	14		
41	50mm Tee junction	No	18		
42	50mm Vent cowl	No	15		
<u>WATER SUPPLIES</u>					
<u>Class 1 copper pipes with capillary couplings</u>					
43	22mm Pipes	m	35		
44	28mm Pipes	m	45		
45	32mm Pipes	m	30		
<u>Extra over Class 1 copper pipes for capillary fittings</u>					
46	22mm Fittings	No	25		
47	28mm Fittings	No	10		
Carried to Collection				R	
Block M - New Kitchen Block					
Bill No. 12					
Plumbing and Drainage (Provisional)					

48	32mm Fittings	No	25
	<u>Testing</u>		
49	Testing water pipe system		Item
	<u>ELECTRIC WATER HEATERS</u>		
	<u>Kwikot</u>		
50	100 Litre "Megaflo" floor or wall electric water heater	No	1
	<u>DRIP TRAYS, TANKS, ETC</u>		
51	1200 x 900mm Drip tray for water heater, with 100mm high upstand all round with top edge bent over and with 50mm threaded outlet union	No	1
	<u>FIRE APPLIANCES ETC</u>		
52	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1
53	4,5kg Dry chemical powder fire extinguisher	No	1
54	80 x 165mm Brass double booster pump connection and "Y" piece with cap and chain	No	1
	<u>Fire hydrant pedestals</u>		
55	Unreinforced concrete hydrant pedestal 900mm high, cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to 200 x 200mm overall octagonal shaped top, including excavation, formwork and two coats of paint to exposed surfaces	No	1
Carried to Collection			
Block M - New Kitchen Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

56	50 NB screwed	m	5
57	50 NB screwed union	No	4
58	50 NB screwed nipple	No	4
59	50 NB galvanised SANS62 medium elbow	No	4
60	50 NB welded or screwed spcket	No	5
61	100 NB Galvanised screw type reducing tee	No	5
62	Painting and labelling of all 50NB screwed fire pipework (25NB) as per SANS 10252 and SANS10140	m	5

PHOTOLUMINESCENT SIGNS

63	150 x 150mm Sign	No	1
64	Provision of fire plan in laminated A3 size	No	1
65	Emergency assembly point sign with steel pole and mass concrete base	No	1

Carried to Collection

Block M - New Kitchen Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
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Section No. 3

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Plumbing and Drainage (Provisional)

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Block M - New Kitchen Block

Bill No. 12

Plumbing and Drainage (Provisional)

R

Block M - New Kitchen Block
Bill No. 13
Electrical work

Mqhawe High School
General Repairs & Renovations and
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5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	240		
9	2.5mm ² 3-Core	m	180		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block M - New Kitchen Block					
Bill No. 13					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	420		
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	42		
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20	Deep type (concrete type) round outlet box for 20mm conduit	No	42		
----	---	----	----	--	--

21	Standard draw box for 20mm conduit	No	42		
----	------------------------------------	----	----	--	--

22	50 x 100 x 50mm Outlet box	No	42		
----	----------------------------	----	----	--	--

23	100 x 100 x 50mm Outlet box	No	42		
----	-----------------------------	----	----	--	--

24	100 x 100 x 50mm Outlet box with blank cover plate	No	42		
----	--	----	----	--	--

CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290		
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DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290		
----	--	---	-----	--	--

LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1		
----	--------------------------------	----	---	--	--

28	16A Flush mounted two lever one-way switch unit	No	9		
----	---	----	---	--	--

Carried to Collection

Block M - New Kitchen Block
 Bill No. 13
 Electrical work

R

R

Block M - New Kitchen Block
Bill No. 13
Electrical work

Mqhawe High School
General Repairs & Renovations and
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Bill No. 13

Electrical work

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Block M - New Kitchen Block

Bill No. 13

Electrical work

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ON FIBRE-CEMENT BOARD SURFACES

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

3	Fascias and barge boards, including priming metal jointing strips	m2	24		
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ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Doors	m2	33		
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ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

5	Door frame	m2	26		
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6	Windows	m2	10		
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 Paintwork

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Bill No. 15

Paintwork

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Block M - New Kitchen Block

Bill No. 15

Paintwork

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Item No		Quantity	Rate	Amount
	BILL NO. 1			
	EARTHWORKS			
	SITE CLEARANCE ETC			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	81	
	EXCAVATION, FILLING, ETC OTHER THAN BULK			
	EXCAVATIONS, ETC			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Latrine pit	m3	93	
3	Trenches	m3	8	
4	Holes	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	10	
6	Hard rock	m3	5	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	92	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	17	
	Carried to Collection		R	
	Block S - New Female Ablution Block			
	Bill No. 1			
	Earthworks (Provisional)			

R

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Mqhawe High School
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Bill No. 1

Earthworks (Provisional)

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Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Descriptions 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</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
Carried to Collection			R
Block S - New Female Ablution Block			
Bill No. 2			
Concrete, Formwork and Reinforcement			

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/19mm concrete

1	Strip footings	m3	8
2	Surface beds	m3	5
3	Pavings	m3	4
4	Slabs including beams and inverted beams	m3	6

TEST CUBES

5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
---	--	----	---

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

6	Surface beds, slabs, etc	m2	36
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PERMANENT FORMWORK

1,2mm Galvanised steel permanent decking system to soffits

7	Decking to slabs with ends laid on brick walls	m2	34
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REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

8	Bars in various diameter	t	1.20
---	--------------------------	---	------

Fabric reinforcement

9	Type 395 fabric reinforcement in concrete surface beds etc	m2	31
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Block S - New Female Ablution Block
 Bill No. 2
 Concrete, Formwork and Reinforcement

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Concrete, Formwork and Reinforcement

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Bill No. 2

Concrete, Formwork and Reinforcement

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Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>BRICKWORK</u>			
<u>FOUNDATIONS (PROVISIONAL)</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	Piers	m3	0.2
2	One brick walls	m2	5
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
3	Piers	m3	1
4	Half brick walls	m2	49
5	Half brick walls in beam filling	m2	3
6	One brick walls in two half brick skins with inner skin bagged and sealed	m2	158
Carried to Collection			R
Block S - New Female Ablution Block			
Bill No. 3			
Masonry			

BRICKWORK SUNDRIES

2.5mm Galvanised brick reinforcement

7	75mm Wide reinforcement built in horizontally	m	364
8	150mm Wide reinforcement built in horizontally	m	632

Prestressed fabricated concrete lintels including necessary temporary supports

9	110 x 75mm Lintels in lengths not exceeding 3m	m	5
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Galvanised wire ties etc

10	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	18
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FACE BRICKWORK

"Corobrick Firelight Satin" face bricks pointed with recessed horizontal and vertical joints

11	Extra over brickwork for face brickwork	m2	132
12	Extra over brickwork for brick-on-edge header course lintel pointed one side and 110mm soffit	m	54

Brick-on-edge header course copings, sills, etc of face bricks, pointed with recessed joints on all exposed faces

13	230mm Wide sills set sloping and slightly projecting	m	5
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DECORATIVE SCREEN WALLS AND GRILLES

14	190 x 190 x 190mm "LG Green" or other equal approved grille blocks with bird proof mesh built in	m2	3
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Block S - New Female Ablution Block
 Bill No. 3
 Masonry

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Bill No. 3

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>ROOF COVERINGS</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)			
1	Roof covering with pitches not exceeding 25 degrees	m2	74	
2	Ridge cappings 475mm girth	m	10	
	<u>ROOF AND WALL INSULATION</u>			
	Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m ² and a Class I fire rating in accordance with SANS 0177-3			
3	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	74	
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	Bill No. 5			
	Roof Coverings			

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	<u>Sawn softwood</u>				
2	38 x 114mm Wall plate	m	20		
3	50 x 76mm Purlins	m	80		
4	38 x 114mm Bracing	m	20		
	<u>Sundries</u>				
5	Wrought faces on sawn timbers	m2	3		
6	Two coats creosote on sawn timbers	m2	3		
	<u>EAVES, VERGES, ETC</u>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
7	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	14		
8	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	20		
	<u>TIMBER DOORS, WINDOWS, ETC</u>				
	<u>Wrought meranti doors hung to timber frames</u>				
9	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	3		
	<u>Semi-solid flush doors with commercial veneer suitable for painting</u>				
10	44mm Door 813 x 2032mm high	No	8		
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Carpentry and Joinery					

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Bill No. 6

Carpentry and Joinery

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Carpentry and Joinery

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3	<p><u>Gypsum plasterboard cornices</u></p> <p>75mm Coved cornices</p> <p>m</p> <p>72</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Block S - New Female Ablution Block</p> <p>Bill No. 7</p> <p>Ceilings, Partitions and Access Flooring</p>		R	

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Bill No. 7

Ceilings, Partitions and Access Flooring

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Bill No. 7

Ceilings, Partitions and Access Flooring

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Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	22
2	WC chrome plated indicator bolt	No	8

LOCKS

Manufactured by "Union"

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	3
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LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

4	150 x 150mm Anodised aluminium plate with female symbol	No	1
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SUNDRIES

Manufactured by "Union"

5	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	11
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BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

6	Toilet roll holder, plugged	No	9
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Ironmongery

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Bill No. 8

Ironmongery

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Ironmongery

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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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block S - New Female Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

R

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	16
2	100mm Diameter rainwater pipes	m	10
3	Extra over gutter for stopped end	m	4
4	Extra over gutter for outlet for 100mm pipe	No	2
5	Extra over rainwater pipe for bend	No	3

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Block S - New Female Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

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<u>STORMWATER CHANNELS</u>					
<u>Earthworks</u>					
6	Excavate average 125mm deep in earth to form "V" drain profile	m3	4		
<u>Concrete, Formwork and Reinforcing</u>					
<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>					
7	"V" drains	m3	4		
8	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	29		
9	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	33		
10	Type 193 fabric reinforcement in concrete surface beds etc	m2	29		
11	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	25		
<u>SOIL DRAINAGE</u>					
<u>Normal duty (Class 51) PVC-U sewer and drain pipes</u>					
12	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	8		
13	110mm Pipes laid in and including trenches not exceeding 1m deep	m	29		
<u>Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings</u>					
14	110mm Bend	No	8		
15	110mm Tee	No	1		
16	110mm Access bend	No	7		
Carried to Collection				R	
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17	110mm Access tee	No	1		
18	110mm Rodding eye	No	2		
19	110mm Straight reducer	No	8		
20	22mm Socket	No	6		
21	28mm Socket	No	2		
22	110mm Pan connector	No	8		
23	110mm PVC tovent iron connector	No	2		
24	110mm Vent iron cowl	No	2		
<u>SANITARY FITTINGS</u>					
<u>"Vaal" or other equal and approved</u>					
25	School type lavatory wash hand basin fixed to wall	No	5		
26	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	8		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech" or other equal and approved</u>					
27	32mm 301 CP basin waste union	No	5		
<u>TRAPS ETC</u>					
<u>UPVC</u>					
28	110mm Two way vent valve	No	8		
<u>Rubber</u>					
29	50mm "P" or "S" trap	No	5		
<u>TAPS, VALVES, ETC</u>					
30	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	15		
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Block S - New Female Ablution Block					
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WATER SUPPLIES

Class 1 copper pipes with capillary couplings

46	22mm Pipes	m	33		
47	28mm Pipes	m	30		
48	32mm Pipes	m	13		

Extra over Class 1 copper pipes for capillary fittings

49	22mm Fittings	No	50		
50	28mm Fittings	No	15		
51	32mm Fittings	No	6		

Testing

52	Testing water pipe system		Item		
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5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	50		
9	2.5mm ² 3-Core	m	10		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block S - New Female Ablution Block					
Bill No. 12					
Electrical work					

<u>GENERAL LIGHTING AND POWER</u>							
<u>CONDUITS ETC</u>							
<u>Rigid PVC conduits</u>							
18	20mm Diameter	m	60				
<u>PVC conduit accessories</u>							
19	Round outlet box for 20mm conduit	No	6				
20	Deep type (concrete type) round outlet box for 20mm conduit	No	6				
21	Standard draw box for 20mm conduit	No	6				
22	50 x 100 x 50mm Outlet box	No	6				
23	100 x 100 x 50mm Outlet box	No	6				
24	100 x 100 x 50mm Outlet box with blank cover plate	No	6				
<u>CONDUCTORS</u>							
<u>Bare copper conductors drawn into conduit, trunking or power skirting</u>							
<u>PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>							
<u>Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting</u>							
25	1.5mm ²	m	290				
<u>DRAW-WIRES</u>							
26	Galvanised steel draw-wires drawn into conduit	m	290				
<u>LIGHT SWITCHES, SOCKET OUTLETS, ETC</u>							
27	Flush mounted bell push button	No	1				
28	16A Flush mounted two lever one-way switch unit	No	2				
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior use</u>			
1	Walls	m2	165	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
2	Walls	m2	40	
	<u>ON PLASTERBOARD SURFACES</u>			
	<u>One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
3	Ceilings and cornices	m2	29	
	Carried to Collection			
	Block S - New Female Ablution Block			
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	Paintwork			

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ON FIBRE-CEMENT BOARD SURFACES

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

4	Fascias and barge boards, including priming metal jointing strips	m2	9	
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ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	40	
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	49	
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>EXCAVATIONS, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Latrine pit	m3	58	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	6	
4	Hard rock	m3	3	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	58	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations exceeding 1,5m deep	m2	43	
7	Sides of trench and hole excavations exceeding 1,5m deep	m2	63	
	Carried to Collection			
	Block T - New Male Ablution Block			
	Bill No. 1			
	Earthworks (Provisional)			

R

Keeping excavations free of water

Item

Compaction of surfaces

m2

29

R

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Mqhawe High School
General Repairs & Renovations and
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Section No. 5

Bill No. 1

Earthworks (Provisional)

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Block T - New Male Ablution Block

Bill No. 1

Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
<u>Formwork</u>			
Descriptions 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			
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"			
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm concrete</u>			
1	Surface beds	m3	5
Carried to Collection			R
Block T - New Male Ablution Block			
Bill No. 2			
Concrete, Formwork and Reinforcement			

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Bill No. 2

Concrete, Formwork and Reinforcement

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Bill No. 2

Concrete, Formwork and Reinforcement

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General Repairs & Renovations and
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	<u>Galvanised wire ties etc</u>				
7	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	12		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrick Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>				
8	Extra over brickwork for face brickwork	m2	58		
9	Extra over brickwork for brick-on-edge header course lintel pointed one side and 110mm soffit	m	24		
	<u>Brick-on-edge header course copings, sills, etc of face bricks, pointed with recessed joints on all exposed faces</u>				
10	230mm Wide sills set sloping and slightly projecting	m	2		
	<u>DECORATIVE SCREEN WALLS AND GRILLES</u>				
11	190 x 190 x 190mm "LG Green" or other equal approved grille blocks with bird proof mesh built in	m2	1		
Carried to Collection					
Block T - New Male Ablution Block					
Bill No. 3					
Masonry					

R

Mqhawe High School
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Bill No. 3

Masonry

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Block T - New Male Ablution Block

Bill No. 3

Masonry

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>ROOF COVERINGS</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)			
1	Roof covering with pitches not exceeding 25 degrees	m2	44	
2	Ridge cappings 475mm girth	m	7	
	<u>ROOF AND WALL INSULATION</u>			
	Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m ² and a Class I fire rating in accordance with SANS 0177-3			
3	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	44	
	Carried Forward to Summary of Section No. 5			
	Block T - New Male Ablution Block			
	Bill No. 5			
	Roof Coverings			

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

	<u>Sawn softwood</u>				
2	38 x 114mm Wall plate	m	13		
3	50 x 76mm Purlins	m	57		
4	38 x 114mm Bracing	m	14		
	<u>Sundries</u>				
5	Wrought faces on sawn timbers	m2	3		
6	Two coats creosote on sawn timbers	m2	3		
	<u>EAVES, VERGES, ETC</u>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
7	80 x 200mm Angle section barge boards including galvanised steel H-profile jointing strips and fix with hot dip galvanised screws and washers	m	13		
8	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	13		
	<u>TIMBER DOORS, WINDOWS, ETC</u>				
	<u>Wrought meranti doors hung to timber frames</u>				
9	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	2		
	<u>Semi-solid flush doors with commercial veneer suitable for painting</u>				
10	44mm Door 813 x 2032mm high	No	2		
Carried to Collection				R	
Block T - New Male Ablution Block					
Bill No. 6					
Carpentry and Joinery					

Mqhawe High School
General Repairs & Renovations and
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Section No. 5

Bill No. 6

Carpentry and Joinery

COLLECTION

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Block T - New Male Ablution Block

Bill No. 6

Carpentry and Joinery

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3	<p><u>Gypsum plasterboard cornices</u></p> <p>75mm Coved cornices</p> <p>m</p> <p>32</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Block T - New Male Ablution Block Bill No. 7 Ceilings, Partitions and Access Flooring</p>			<p>R</p>

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Section No. 5

Bill No. 7

Ceilings, Partitions and Access Flooring

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Block T - New Male Ablution Block

Bill No. 7

Ceilings, Partitions and Access Flooring

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Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

HINGES, BOLTS, ETC

Manufactured by "Union" or other equal and approved

1	100mm Aluminium butt hinge	No	8
2	WC chrome plated indicator bolt	No	2

LOCKS

Manufactured by "Union"

3	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	2
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LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

4	150 x 150mm Anodised aluminium plate with male symbol	No	1
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SUNDRIES

Manufactured by "Union"

5	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	4
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BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

6	Toilet roll holder, plugged	No	2
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Carried to Collection

Block T - New Male Ablution Block
 Bill No. 8
 Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
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Bill No. 8

Ironmongery

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Block T - New Male Ablution Block

Bill No. 8

Ironmongery

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General Repairs & Renovations and
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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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block T - New Male Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	16
2	100mm Diameter rainwater pipes	m	10
3	Extra over gutter for stopped end	m	4
4	Extra over gutter for outlet for 100mm pipe	No	2
5	Extra over rainwater pipe for bend	No	3

Carried to Collection

Block T - New Male Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

6	Excavate average 125mm deep in earth to form "V" drain profile	m3	4
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Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

7	"V" drains	m3	4
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8	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	29
---	---	----	----

9	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	33
---	---	---	----

10	Type 193 fabric reinforcement in concrete surface beds etc	m2	29
----	--	----	----

11	10 x 150mm Pre-compressed bitumen impregnated foam plastic joint sealing strips between brickwork and concrete	m	25
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SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

12	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	8
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13	110mm Pipes laid in and including trenches not exceeding 1m deep	m	29
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Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings

14	110mm Bend	No	8
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15	110mm Tee	No	1
----	-----------	----	---

16	110mm Access bend	No	7
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Carried to Collection

Block T - New Male Ablution Block
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 Plumbing and Drainage (Provisional)

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General Repairs & Renovations and
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17	110mm Access tee	No	1		
18	110mm Rodding eye	No	2		
19	110mm Straight reducer	No	8		
20	22mm Socket	No	6		
21	28mm Socket	No	2		
22	110mm Pan connector	No	8		
23	110mm PVC tovent iron connector	No	2		
24	110mm Vent iron cowl	No	2		
<u>SANITARY FITTINGS</u>					
<u>"Vaal" or other equal and approved</u>					
25	School type lavatory wash hand basin fixed to wall	No	4		
26	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	4		
27	Lavatera 70400 1/2 wall urinal with spreader, waste union, and FJT5.5 flushpipe (flush valve elsewhere)	No	4		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech" or other equal and approved</u>					
28	32mm 301 CP basin waste union	No	4		
<u>TRAPS ETC</u>					
<u>UPVC</u>					
29	110mm Two way vent valve	No	4		
<u>Rubber</u>					
30	50mm "P" or "S" trap	No	4		
Carried to Collection				R	
Block T - New Male Ablution Block					
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Plumbing and Drainage (Provisional)					

Mqhawe High School
General Repairs & Renovations and
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TAPS, VALVES, ETC

31	FJ100CP "Flushmaster Junior" urinal flush valve	No	4
32	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	12
33	22mm CP fullway isolating Valve with handle nickel plated	No	2
34	28mm CP fullway isolating Valve with handle nickel plated	No	2
35	15mm 111-15CP pillar tap	No	4

SANITARY PLUMBING

uPVC soil and vent pipes

36	50mm Pipes	m	13
37	100mm Pipes	m	15

Extra over uPVC soil and vent pipes for fittings

38	50mm Bend	No	6
39	100mm Bend	No	3
40	50mm Access bend	No	4
41	100mm Inspection eye	No	3
42	50mm Tee	No	2
43	50mm Access bend	No	18
44	100mm to 50mm reducer	No	3
45	50mm Tee junction	No	18
46	100mm Tee with junction	No	18
47	50mm Vent cowl	No	15

Carried to Collection

Block T - New Male Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

WATER SUPPLIES

Class 1 copper pipes with capillary couplings

48	22mm Pipes	m	33		
49	28mm Pipes	m	30		
50	32mm Pipes	m	13		

Extra over Class 1 copper pipes for capillary fittings

51	22mm Fittings	No	50		
52	28mm Fittings	No	15		
53	32mm Fittings	No	6		

Testing

54	Testing water pipe system		Item		
----	---------------------------	--	------	--	--

Carried to Collection

Block T - New Male Ablution Block
 Bill No. 11
 Plumbing and Drainage (Provisional)

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Block T - New Male Ablution Block

Bill No. 11

Plumbing and Drainage (Provisional)

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5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	40		
9	2.5mm ² 3-Core	m	10		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block T - New Male Ablution Block					
Bill No. 12					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	50		
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	5		
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20	Deep type (concrete type) round outlet box for 20mm conduit	No	5		
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21	Standard draw box for 20mm conduit	No	5		
----	------------------------------------	----	---	--	--

22	50 x 100 x 50mm Outlet box	No	5		
----	----------------------------	----	---	--	--

23	100 x 100 x 50mm Outlet box	No	5		
----	-----------------------------	----	---	--	--

24	100 x 100 x 50mm Outlet box with blank cover plate	No	5		
----	--	----	---	--	--

CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290		
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DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290		
----	--	---	-----	--	--

LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1		
----	--------------------------------	----	---	--	--

28	16A Flush mounted two lever one-way switch unit	No	1		
----	---	----	---	--	--

Carried to Collection

Block T - New Male Ablution Block
 Bill No. 12
 Electrical work

R

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Bill No. 12

Electrical work

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Block T - New Male Ablution Block

Bill No. 12

Electrical work

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R

ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Doors
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m2

15

Carried to Collection

Block T - New Male Ablution Block
Bill No. 14
Paintwork

R

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General Repairs & Renovations and
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Bill No. 14

Paintwork

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Block T - New Male Ablution Block

Bill No. 14

Paintwork

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Block U - New Double Storey Classroom Block
Bill No. 1
Earthworks (Provisional)

FILLING ETC

Compaction of surfaces

8	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 98% Mod AASHTO density	m2	650		
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WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	650		
---	--	----	-----	--	--

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 1
 Earthworks (Provisional)

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Bill No. 1

Earthworks (Provisional)

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Block U - New Double Storey Classroom Block

Bill No. 1

Earthworks (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions 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			
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
1	Ground beams	m3	32	
	Carried to Collection			R
	Block U - New Double Storey Classroom Block			
	Bill No. 2			
	Concrete, Formwork and Reinforcement			

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

2	Trenches	m3	3		
3	Surface beds	m3	78		
4	Pavings	m3	16		
5	Slabs including beams and inverted beams	m3	155		
6	Stairs including landings, beams and inverted beams	m3	2		
<u>TEST CUBES</u>					
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
8	Surface beds, slabs, etc	m2	727		
<u>Finishing top surfaces of concrete smooth with a power float</u>					
9	Surface beds, slabs, etc	m2	710		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
<u>Rough formwork to sides</u>					
10	Edges, risers, ends and reveals not exceeding 300mm high	m	204		
11	Outer sides of inverted edge beams	m2	138		
12	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	150		
13	Stairs with sloping soffits	m2	18		
14	Slabs exceeding 250mm and not exceeding 500mm thick	m2	414		
Carried to Collection				R	
Block U - New Double Storey Classroom Block					
Bill No. 2					
Concrete, Formwork and Reinforcement					

MOVEMENT JOINTS ETC

Expansion joints with 12mm bitumen impregnated softboard, including raking out polysulphate sealant

15	Not exceeding 300mm high through slabs	m	132	
----	--	---	-----	--

REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

16	Bars in various diameter	t	15.89	
----	--------------------------	---	-------	--

Fabric reinforcement

17	Type 395 fabric reinforcement in concrete surface beds etc	m2	682	
----	--	----	-----	--

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 2
 Concrete, Formwork and Reinforcement

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 6

Bill No. 2

Concrete, Formwork and Reinforcement

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Block U - New Double Storey Classroom Block

Bill No. 2

Concrete, Formwork and Reinforcement

R

Block U - New Double Storey Classroom Block
Bill No. 3
Masonry

**Mqhawe High School
General Repairs & Renovations and
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[illegible]

Mqhawe High School
General Repairs & Renovations and
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Section No. 6

Bill No. 3

Masonry

COLLECTION

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Block U - New Double Storey Classroom Block

Bill No. 3

Masonry

R

[illegible]

ROOF AND WALL INSULATION

Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3

- 5 Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required

m2

639

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 5
 Roof Coverings

R

Mqhawe High School
General Repairs & Renovations and
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Bill No. 5

Roof Coverings

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Block U - New Double Storey Classroom Block

Bill No. 5

Roof Coverings

R

Block U - New Double Storey Classroom Block
Bill No. 6
Carpentry and Joinery

Amount

R

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences			
1	<u>Supply and install prefabricated 17,5 degree roof for a U shaped double story building - Block U in accordance with the Standard Building Regulations:</u> Roof construction to double pitched roof with two hipped ends 56,87 x 9,35m and 1,70m high overall with 700mm eaves projection on all sides including standard full trusses, Hip-Valley trusses, jack trusses, etc at a maximum centres of 1250mm including, wall plates, permanent bracing and 50 x 76mm purlins at a maximum centres of 1250mm for IBR roof covering specified above	No	1	
	<u>Wrought laminated Saligna</u>			
2	297 x 70mm Beam bolted to brick piers	m	67	
	<u>Sundries</u>			
3	Wrought faces on sawn timbers	m2	22	
4	Two coats creosote on sawn timbers	m2	22	
	<u>EAVES, VERGES, ETC</u>			
	<u>Medium density plain fibre-cement fascias and barge boards</u>			
5	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	137	
Carried to Collection				R
Block U - New Double Storey Classroom Block				
Bill No. 6				
Carpentry and Joinery				

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to steel frame

6	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	14
---	--	----	----

Semi-solid flush doors with commercial veneer suitable for painting

7	44mm Door 813 x 2032mm high	No	2
---	-----------------------------	----	---

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 6
 Carpentry and Joinery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 6

Bill No. 6

Carpentry and Joinery

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Block U - New Double Storey Classroom Block

Bill No. 6

Carpentry and Joinery

R

Nucornice foam plastic cornices

342

R

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 6

Bill No. 7

Ceilings, Partitions and Access Flooring

COLLECTION

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Block U - New Double Storey Classroom Block

Bill No. 7

Ceilings, Partitions and Access Flooring

R

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>IRONMONGERY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
<u>Finishes to ironmongery</u>			
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			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
Carried to Collection			
Block U - New Double Storey Classroom Block			
Bill No. 9			
Ironmongery			

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

LOCKS

Manufactured by "Union" or other equal and approved

- | | | | | |
|---|---|----|----|--|
| 1 | Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles | No | 16 | |
|---|---|----|----|--|

SUNDRIES

Manufactured by "Union" or other equal and approved

- | | | | | |
|---|---|----|----|--|
| 2 | 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw | No | 16 | |
|---|---|----|----|--|

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Manufactured by "Vitrex System"

- | | | | | |
|---|---|----|----|--|
| 3 | Pinning board size 1200 x 1200mm high plugged | No | 4 | |
| 4 | Pinning board size 2400 x 1200mm high plugged | No | 12 | |
| 5 | Standard green enamel magnetic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged | No | 12 | |

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 9
 Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 6

Bill No. 9

Ironmongery

COLLECTION

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Block U - New Double Storey Classroom Block

Bill No. 9

Ironmongery

R

GALVANISED STEEL GATES, SCREENS, ETC

Welded screens and gates

4	Galvanised mild steel mesh "green" screen with creepers, overall size 1,5 x 5m high, fixed to brickwork and concrete slab as detailed on drawing no. 1120.19-MQH-GA-2051	No	7		
5	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set, etc.	No	14		

GALVANISED PRESSED STEEL DOOR FRAMES

Double rebated frames suitable for half brick walls

6	Frame for door 813 x 2032mm high	No	2		
---	----------------------------------	----	---	--	--

Double rebated frames suitable for one brick walls

7	Frame for door 813 x 2032mm high	No	14		
---	----------------------------------	----	----	--	--

GALVANISED STEEL WINDOWS, DOORS, ETC

Standard school windows

8	Window size, 900 x 1100mm high	No	108		
---	--------------------------------	----	-----	--	--

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 10
 Metalwork

R

Mqhawe High School
General Repairs & Renovations and
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Section No. 6

Bill No. 10

Metalwork

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Block U - New Double Storey Classroom Block

Bill No. 10

Metalwork

R

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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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	137
2	100mm Diameter rainwater pipes	m	117
3	Extra over gutter for outlet for 100mm pipe	No	16
4	Extra over rainwater pipe for bend	No	40
5	Extra over rainwater pipe for shoe	No	12
6	Fullbore cast iron outlet	No	4

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

- | | | | |
|---|--|----|----|
| 7 | Excavate average 125mm deep in earth to form "V" drain profile | m3 | 18 |
|---|--|----|----|

Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

- | | | | |
|----|---|----|-----|
| 8 | "V" drains | m3 | 18 |
| 9 | Finishing top surface of "V" drains smooth with a steel trowel to falls | m2 | 140 |
| 10 | Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide | m | 144 |
| 11 | Type 193 fabric reinforcement in concrete surface beds etc | m2 | 140 |
| 12 | Expansion joints with 12mm bitumen impregnated softboard between vertical concrete and brick surfaces | m | 132 |

FIRE APPLIANCES ETC

- | | | | |
|----|--|----|---|
| 13 | "Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket | No | 1 |
| 14 | 9kg Dry chemical powder fire extinguisher | No | 2 |

Fire hydrants

- | | | | |
|----|---------------------------------|----|---|
| 15 | 100mm Fire hydrant "Storz" type | No | 1 |
|----|---------------------------------|----|---|

WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

- | | | | |
|----|---------------------|----|---|
| 16 | 25 NB screwed | m | 8 |
| 17 | 25 NB screwed union | No | 5 |

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

18	50 NB screwed union	No	4
19	25 NB barrel nipple screwed	No	6
20	25 NB welded or screwed socket/screw type	No	4
21	25 NB welded or screwed type elbow	No	2
22	50 NB Galvanised screw type reducing tee	No	2
23	50/25 NB Screw type reducing tee	No	2
24	100 NB Galvanised screw type reducing tee	No	2
25	50/25 NB Reducer	No	1
26	100/50 NB Concentric SANS62 reducer	No	1
27	Painting and labelling of all 50NB screwed fire pipework (25NB) as per SANS 10252 and SANS10140	m	6
28	Painting and labelling of all pipework (25NB) as per SANS 10252 and SANS10140	m	8
29	Flashing of pipe work and pressure testing of whole system		Item
30	Commissioning of complete system		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
31	150 x 150mm Sign	No	3
32	Hydrant and arrow sign (290 x 290mm size per sign) with steel pole and mass concrete base	No	2
33	Emergency assembly point sign with steel pole and mass concrete base	No	1

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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Plumbing and Drainage (Provisional)

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Bill No. 12

Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	1,020		
9	2.5mm ² 3-Core	m	320		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block U - New Double Storey Classroom Block					
Bill No. 13					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	1,340		
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	134		
----	-----------------------------------	----	-----	--	--

20	Deep type (concrete type) round outlet box for 20mm conduit	No	134		
----	---	----	-----	--	--

21	Standard draw box for 20mm conduit	No	134		
----	------------------------------------	----	-----	--	--

22	50 x 100 x 50mm Outlet box	No	134		
----	----------------------------	----	-----	--	--

23	100 x 100 x 50mm Outlet box	No	134		
----	-----------------------------	----	-----	--	--

24	100 x 100 x 50mm Outlet box with blank cover plate	No	134		
----	--	----	-----	--	--

CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290		
----	--------------------	---	-----	--	--

DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290		
----	--	---	-----	--	--

LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1		
----	--------------------------------	----	---	--	--

28	16A Flush mounted two lever one-way switch unit	No	20		
----	---	----	----	--	--

Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 13
 Electrical work

R

[illegible]

Mqhawe High School
General Repairs & Renovations and
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Bill No. 13

Electrical work

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Block U - New Double Storey Classroom Block

Bill No. 13

Electrical work

R

Item No		Quantity	Rate	Amount
	BILL NO. 15			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and use</u>			
1	Walls	m2	1,032	
2	Ceilings and cornices	m2	611	
	<u>ON PLASTERBOARD SURFACES</u>			
	<u>One coat primer, one universal undercoat and two coats exterior quality "Cemote" pva paint</u>			
3	Ceilings and cornices	m2	498	
	Carried to Collection		R	
	Block U - New Double Storey Classroom Block			
	Bill No. 15			
	Paintwork			

ON FIBRE-CEMENT BOARD SURFACES

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

4	Fascias and barge boards, including priming metal jointing strips	m2	65
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ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Laminated beam	m2	49
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6	Doors	m2	56
---	-------	----	----

ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

7	Windows	m2	214
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8	Door frame	m2	21
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Carried to Collection

Block U - New Double Storey Classroom Block
 Bill No. 15
 Paintwork

R

Mqhawe High School
General Repairs & Renovations and
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Section No. 6

Bill No. 15

Paintwork

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Block U - New Double Storey Classroom Block

Bill No. 15

Paintwork

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

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12	Plumbing and Drainage (Provisional)		266		
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14	Glazing		272		
15	Paintwork		275		
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Block U - New Double Storey Classroom Block					

Mqhawe High School
General Repairs & Renovations and
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	543	
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>EXCAVATIONS, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	50	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	5	
4	Hard rock	m3	3	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	50	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	310	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item		
	Carried to Collection			
	Block V - New Administration Block			
	Bill No. 1			
	Earthworks (Provisional)			

FILLING ETC

Compaction of surfaces

8	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 98% Mod AASHTO density	m2	394
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WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	387
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Carried to Collection

Block V - New Administration Block
 Bill No. 1
 Earthworks (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 7

Bill No. 1

Earthworks (Provisional)

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Block V - New Administration Block

Bill No. 1

Earthworks (Provisional)

R

<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>							
<u>30MPa/19mm concrete</u>							
1	Ground beams	m3	31				
2	Trenches	m3	45				
3	Surface beds	m3	52				
4	Pavings	m3	1				
<u>TEST CUBES</u>							
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6				
<u>CONCRETE SUNDRIES</u>							
<u>Finishing top surfaces of concrete smooth with a wood float</u>							
6	Surface beds, slabs, etc	m2	34				
<u>Finishing top surfaces of concrete smooth with a power float</u>							
7	Surface beds, slabs, etc	m2	378				
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>							
<u>Rough formwork to sides</u>							
8	Edges, risers, ends and reveals not exceeding 300mm high	m	19				
<u>MOVEMENT JOINTS ETC</u>							
<u>Expansion joints with 12mm bitumen impregnated softboard, including raking out polysulphate sealant</u>							
9	Not exceeding 300mm high through slabs	m	125				
Carried to Collection							
Block V - New Administration Block							
Bill No. 2							
Concrete, Formwork and Reinforcement							

REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

10	Bars in various diameter	t	2.68	
----	--------------------------	---	------	--

Fabric reinforcement

11	Type 395 fabric reinforcement in concrete surface beds etc	m2	406	
----	--	----	-----	--

Carried to Collection

Block V - New Administration Block
 Bill No. 2
 Concrete, Formwork and Reinforcement

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Mqhawe High School
General Repairs & Renovations and
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Concrete, Formwork and Reinforcement

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Block V - New Administration Block

Bill No. 2

Concrete, Formwork and Reinforcement

R

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General Repairs & Renovations and
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General Repairs & Renovations and
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Bill No. 3

Masonry

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Block V - New Administration Block

Bill No. 3

Masonry

R

R

ROOF AND WALL INSULATION

Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3

5	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	447
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Block V - New Administration Block
Bill No. 5
Roof Coverings

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Mqhawe High School
General Repairs & Renovations and
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Section No. 7

Bill No. 5

Roof Coverings

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Block V - New Administration Block

Bill No. 5

Roof Coverings

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	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
1	<u>Supply and install prefabricated 17,5 degree roof for single story building in accordance with the Standard Building Regulations:</u> Roof construction to double pitched roof with two hipped ends 38,70 x 9.82m and 1,70m high overall with 700mm eaves projection on all sides including standard full trusses, Hip trusses, jack and valley trusses, etc at a maximum centres of 1250mm including, wall plates, permanent bracing and 50 x 76mm purlins at a maximum centres of 1250mm for IBR roof covering specified above	No	1		
	<u>Sundries</u>				
2	Wrought faces on sawn timbers	m2	17		
3	Two coats creosote on sawn timbers	m2	17		
	<u>EAVES, VERGES, ETC</u>				
	<u>Medium density plain fibre-cement fascias and barge boards</u>				
4	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	102		
	<u>TIMBER DOORS, WINDOWS, ETC</u>				
	<u>Wrought meranti doors hung to steel frame</u>				
5	44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No	2		
Carried to Collection					
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Carpentry and Joinery					

Mqhawe High School
General Repairs & Renovations and
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6	44mm Double leaf framed batten door 1594 x 2032mm high of 44 x 100mm top rail, stiles and rebated meeting stiles, 44 x 100mm middle ledge and braces and 44 x 100mm bottom rail filled in with 70mm V-jointed one side boarding and covered on other side with 3,2mm plywood with veneer to match door let into and including rebates all round	No	2		
	<u>Semi-solid flush doors with commercial veneer suitable for painting</u>				
7	44mm Door 813 x 2032mm high	No	18		
	<u>FITTINGS</u>				
	<u>Kitchen cupboards etc with approved hinges, handles and telescopic drawer sliders, including 32mm thick post-formed top with 0,6mm Decon Laminated in Artic Granite or similar</u>				
8	L-Shaped Kitchen cupboard overall size 4,50 x 0,9m high with top, sides, bottom, division, shelf, back and hinged doors, dividing framework, drawers etc.	No	1		
	<u>Kitchen storage shelving</u>				
9	Bulk stockroom shelving overall size 5,50 x 2,00 x 0,40m	No	1		
10	Reception counter overall size 5,50 x 0,50 x 0,90m high with top, sides, bottom, division, shelf, back and hinged doors, dividing framework, drawers etc.	No	1		
11	Standard waiting area timber bench size 2,5m long	No	1		
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Carpentry and Joinery					

Mqhawe High School
General Repairs & Renovations and
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Bill No. 6

Carpentry and Joinery

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Bill No. 6

Carpentry and Joinery

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**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

3	<u>Gypsum plasterboard cornices</u> 75mm Coved cornices	m	324	
	<p style="text-align: right;">Carried to Collection</p> <p>Block V - New Administration Block Bill No. 7 Ceilings, Partitions and Access Flooring</p>			<p style="text-align: center;">R</p>

Mqhawe High School
General Repairs & Renovations and
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Section No. 7

Bill No. 7

Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Mqhawe High School
General Repairs & Renovations and
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Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

LOCKS

Manufactured by "Union"

- | | | | |
|---|---|----|----|
| 1 | Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles | No | 20 |
| 2 | Solid art 390/313 rebated four lever mortice lockset with and including Satin Chrome Plated handles | No | 2 |

LETTERS, NAMEPLATES, ETC

Manufactured by "Union" or other equal and approved

- | | | | |
|---|---|----|---|
| 3 | 150 x 150mm Anodised aluminium plate with toilet symbol | No | 3 |
|---|---|----|---|

SUNDRIES

Manufactured by "Union"

- | | | | |
|---|---|----|----|
| 4 | 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw | No | 24 |
|---|---|----|----|

BATHROOM FITTINGS

Manufactured by "Union" or other equal and approved

- | | | | |
|---|-----------------------------|----|---|
| 5 | Toilet roll holder, plugged | No | 5 |
|---|-----------------------------|----|---|

Carried to Collection

Block V - New Administration Block
 Bill No. 9
 Ironmongery

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**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

Manufactured by "Vitrex System" or other equal and
approved

6	Pinning board size 1200 x 1200mm high plugged	No	11		
7	Pinning board size 2400 x 1200mm high plugged	No	1		

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Ironmongery

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General Repairs & Renovations and
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Bill No. 9

Ironmongery

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Block V - New Administration Block

Bill No. 9

Ironmongery

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
	<u>Welded screens and gates</u>			
1	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock, etc	No	2	
2	Double leaf swing hot dipped galvanised mild steel gate, 1880mm x 2125mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including 50mm brass padlock and all other ironmongery to fix on wall	No	2	
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard school windows with flat burglar bars to opening sashes</u>			
3	Window type 1, size 890 x 1250mm high	No	6	
4	Ditto, but type 2, size 533 x 654mm high	No	6	
5	Ditto, but type 3, size 1022 x 1250mm high	No	26	
6	Ditto, but type 4, size 1022 x 654mm high	No	2	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>Double rebated frames suitable for half brick walls</u>			
7	Frame for door 813 x 2032mm high	No	18	
	<u>Double rebated frames suitable for one brick walls</u>			
8	Frame for door 813 x 2032mm high	No	2	
	Carried to Collection			
	Block V - New Administration Block			
	Bill No. 10			
	Metalwork			

R

Mqhawe High School
General Repairs & Renovations and
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9	Ditto, but for door 1594 x 2032mm high <u>STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u> " <u>Chubb"</u> recordroom doors suitable for 230mm walls fixed to brickwork or concrete	No	2	
10	Double ended recordroom ventilator	No	4	
11	"Chubb" recordroom door and frame 900 x 2100mm high overall with a mass of 180kg	No	2	
				R
Carried to Collection				
Block V - New Administration Block Bill No. 10 Metalwork				

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General Repairs & Renovations and
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Bill No. 10

Metalwork

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Block V - New Administration Block

Bill No. 10

Metalwork

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General Repairs & Renovations and
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**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

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Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
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			
Carried to Collection			
Block V - New Administration Block			
Bill No. 13			
Plumbing and Drainage (Provisional)			

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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block V - New Administration Block
 Bill No. 13
 Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	102
2	100mm Diameter rainwater pipes	m	17
3	Extra over gutter for angle	No	10
4	Extra over gutter for outlet for 100mm pipe	No	6
5	Extra over rainwater pipe for bend	No	12
6	Extra over rainwater pipe for shoe	No	6

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Block V - New Administration Block
 Bill No. 13
 Plumbing and Drainage (Provisional)

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STORMWATER CHANNELS

Earthworks

- | | | | |
|---|--|----|----|
| 7 | Excavate average 125mm deep in earth to form "V" drain profile | m3 | 13 |
|---|--|----|----|

Soil insecticide in accordance with SANS 5859

- | | | | |
|---|--|----|-----|
| 8 | Weed killer in accordance with SANS 5859 under floors etc, | m2 | 101 |
|---|--|----|-----|

Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

- | | | | |
|----|---|----|-----|
| 9 | "V" drains | m3 | 13 |
| 10 | Finishing top surface of "V" drains smooth with a steel trowel to falls | m2 | 101 |
| 11 | Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide | m | 105 |
| 12 | Type 193 fabric reinforcement in concrete surface beds etc | m2 | 101 |
| 13 | Expansion joints with 12mm bitumen impregnated softboard between vertical concrete and brick surfaces | m | 97 |
| 14 | One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape under surface bed | m2 | 101 |

SOIL DRAINAGE

Normal duty (Class 51) PVC-U sewer and drain pipes

- | | | | |
|----|---|---|----|
| 15 | 110mm Pipes vertically or ramped to cleaning eyes etc (no excavation) | m | 10 |
| 16 | 110mm Pipes laid in and including trenches not exceeding 1m deep | m | 20 |

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Block V - New Administration Block
 Bill No. 13
 Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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	<u>Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings</u>				
17	22mm Socket	No	2		
18	110mm Rodding eye	No	4		
19	110mm Pan connector	No	5		
20	50mm Vent cowl	No	5		
21	110mm Vent cowl	No	5		
	<u>SANITARY FITTINGS</u>				
	<u>"Vaal" or other equal and approved</u>				
22	School type lavatory wash hand basin fixed to wall	No	6		
23	Low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	5		
	<u>Rubber</u>				
24	50mm "P" or "S" trap	No	6		
	<u>TAPS, VALVES, ETC</u>				
25	HDPE/UPVC to transition fitting. Underground copper portion to be denzo wrapped (1m underground)	No	11		
26	22mm Fullway isolating ball valve with handle nickel plated	No	2		
27	15mm Stop cock	No	11		
28	15mm Bib tap	No	6		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC soil and vent pipes</u>				
29	50mm Pipes	m	30		
30	110mm Pipes	m	5		
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General Repairs & Renovations and
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Construction of New Buildings

5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	700		
9	2.5mm ² 3-Core	m	410		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block V - New Administration Block					
Bill No. 14					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	1,110		
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	111		
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20	Deep type (concrete type) round outlet box for 20mm conduit	No	111		
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21	Standard draw box for 20mm conduit	No	111		
----	------------------------------------	----	-----	--	--

22	50 x 100 x 50mm Outlet box	No	111		
----	----------------------------	----	-----	--	--

23	100 x 100 x 50mm Outlet box	No	111		
----	-----------------------------	----	-----	--	--

24	100 x 100 x 50mm Outlet box with blank cover plate	No	111		
----	--	----	-----	--	--

CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290		
----	--------------------	---	-----	--	--

DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290		
----	--	---	-----	--	--

LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1		
----	--------------------------------	----	---	--	--

28	16A Flush mounted two lever one-way switch unit	No	24		
----	---	----	----	--	--

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Block V - New Administration Block
 Bill No. 14
 Electrical work

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Block V - New Administration Block
Bill No. 14
Electrical work

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Electrical work

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Electrical work

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Item No			Quantity	Rate	Amount
	<u>BILL NO. 15</u>				
	<u>GLAZING</u>				
	<u>GLAZING TO STEEL WITH PUTTY</u>				
	<u>4mm Clear float glass</u>				
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	54		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
	<u>4mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
2	Mirror 450 x 600mm high with four screws	No	6		
	Carried Forward to Summary of Section No. 7				
	Block V - New Administration Block				
	Bill No. 15				
	Glazing				
				R	

ON FIBRE-CEMENT BOARD SURFACES

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

4	Fascias and barge boards, including priming metal jointing strips	m2	49		
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ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

5	Doors	m2	87		
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ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

6	Door frames	m2	51		
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7	Windows	m2	108		
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Block V - New Administration Block
 Bill No. 16
 Paintwork

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Bill No. 16

Paintwork

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Paintwork

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11	Plastering	306	
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16	Paintwork	324	
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	1,267	
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>EXCAVATIONS, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	76	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	8	
4	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	76	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	443	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water		Item	
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	Block W - New Multi-Purpose Classroom Block			
	Bill No. 1			
	Earthworks (Provisional)			

FILLING ETC

Compaction of surfaces

8	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 98% Mod AASHTO density	m2	702
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WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	702
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Block W - New Multi-Purpose Classroom Block
 Bill No. 1
 Earthworks (Provisional)

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Section No. 8

Bill No. 1

Earthworks (Provisional)

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Block W - New Multi-Purpose Classroom Block

Bill No. 1

Earthworks (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Descriptions 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</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
Carried to Collection			R
Block W - New Multi-Purpose Classroom Block			
Bill No. 2			
Concrete, Formwork and Reinforcement			

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

10	Bars in various diameter	t	5.03	
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Fabric reinforcement

11	Type 395 fabric reinforcement in concrete surface beds etc	m2	827	
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Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 2
 Concrete, Formwork and Reinforcement

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 8

Bill No. 2

Concrete, Formwork and Reinforcement

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Block W - New Multi-Purpose Classroom Block

Bill No. 2

Concrete, Formwork and Reinforcement

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Mqhawe High School
General Repairs & Renovations and
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Section No. 8

Bill No. 3

Masonry

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Block W - New Multi-Purpose Classroom Block

Bill No. 3

Masonry

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No			Quantity	Rate	Amount
	<u>BILL NO. 4</u>				
	<u>WATERPROOFING</u>				
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
1	Under surface beds	m2	1,940		
	Carried Forward to Summary of Section No. 8				
	Block W - New Multi-Purpose Classroom Block				
	Bill No. 4				
	Waterproofing				
				R	

Block W - New Multi-Purpose Classroom Block
Bill No. 5
Roof Coverings

ROOF AND WALL INSULATION

Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3

- 5 Insulation sheeting laid taut over purlins and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required

m2

894

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 5
 Roof Coverings

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 8

Bill No. 5

Roof Coverings

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Block W - New Multi-Purpose Classroom Block

Bill No. 5

Roof Coverings

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
<u>Joinery</u>			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>ROOFS ETC</u>			
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Trusses are at maximum 1250mm centres			
Roof covering is 0.50mm - G550 AZ150, ColorPlus® Steel IFR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing.			
Ceilings are 6,4mm rhinoboard on 38 x 38mm branderling			
Carried to Collection			R
Block W - New Multi-Purpose Classroom Block			
Bill No. 6			
Carpentry and Joinery			

BILL NO. 6

CARPENTRY AND JOINERY

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Joinery

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

ROOFS ETC

PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1250mm centres

Roof covering is 0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing.

Ceilings are 6,4mm rhinoboard on 38 x 38mm brandering

Carried to Collection

R

Block W - New Multi-Purpose Classroom Block
Bill No. 6
Carpentry and Joinery

Bill No. 6

Carpentry and Joinery

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences			
1	<u>Supply and install prefabricated 17,5 degree roof for a U shaped single story building - Block W in accordance with the Standard Building Regulations:</u> Roof construction to double pitched roof with two hipped ends 76,35 x 9,35m and 1,70m high overall with 700mm eaves projection on all sides including standard full trusses, Hip-Valley trusses, jack trusses, etc at a maximum centres of 1250mm including, wall plates, permanent bracing and 50 x 76mm purlins at a maximum centres of 1250mm for IBR roof covering specified above	No	1	
	<u>Wrought laminated Saligna</u>			
2	297 x 70mm Beam bolted to steel posts	m	58	
	<u>Sundries</u>			
3	Wrought faces on sawn timbers	m ²	29	
4	Two coats creosote on sawn timbers	m ²	29	
	<u>EAVES, VERGES, ETC</u>			
	<u>Medium density plain fibre-cement fascias and barge boards</u>			
5	12 x 225mm Medium density fascia boards including galvanised H-profile jointing strips tied with and including hot dipped galvanised screws and washers	m	179	
Carried to Collection				R
Block W - New Multi-Purpose Classroom Block Bill No. 6 Carpentry and Joinery				

TIMBER DOORS, WINDOWS, ETC

Wrought meranti doors hung to steel frame

- 6 44mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x110mm wide top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm bottom ledge, filled in with 22mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint

No

7

Semi-solid flush doors with commercial veneer suitable for painting

- 7 44mm Door 813 x 2032mm high

No

12

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 6
 Carpentry and Joinery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 8

Bill No. 6

Carpentry and Joinery

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Block W - New Multi-Purpose Classroom Block

Bill No. 6

Carpentry and Joinery

R

Nucornice foam plastic cornices

377

R

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 8

Bill No. 7

Ceilings, Partitions and Access Flooring

COLLECTION

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Block W - New Multi-Purpose Classroom Block

Bill No. 7

Ceilings, Partitions and Access Flooring

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No	Quantity	Rate	Amount
<u>BILL NO. 8</u>			
<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
<u>FLOOR COVERINGS</u>			
<u>300 x 300 x 2.5mm Semi flexible vinyl tiles</u>			
1	On floors m2	658	
<u>Vinyl skirtings, nosings, etc</u>			
2	70mm High vinyl skirting m	349	
<u>POLISH, SEALERS, ETC</u>			
3	Three coats wax polish on vinyl flooring m2	658	
Carried Forward to Summary of Section No. 8 Block W - New Multi-Purpose Classroom Block Bill No. 8 Floor Coverings, Wall Linings, etc.			R

IRONMONGERY

Proprietary items

Finishes to ironmongery

BS Satin bronze lacquered
CH Chromium plated
SC Satin chromium plated
SE Silver enamelled
GE Grey enamelled
AN Anodised natural
AS Anodised silver
AB Anodised bronze
AG Anodised gold
ABL Anodised black
PB Polished brass
PL Polished and lacquered
PT Epoxy coated
SD Sanded

R

Block W - New Multi-Purpose Classroom Block
Bill No. 9
Ironmongery

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

LOCKS

Manufactured by "Union" or other equal and approved

- | | | | |
|---|---|----|----|
| 1 | Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles | No | 19 |
|---|---|----|----|

SUNDRIES

Manufactured by "Union" or other equal and approved

- | | | | |
|---|---|----|----|
| 2 | 38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw | No | 19 |
|---|---|----|----|

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Manufactured by "Vitrex System"

- | | | | |
|---|---|----|---|
| 3 | Pinning board size 1200 x 1200mm high plugged | No | 4 |
| 4 | Pinning board size 2400 x 1200mm high plugged | No | 5 |
| 5 | Standard green enamel magnetic chalkboard overall size 4800 x 1140mm high comprising two fixed panels, each 2400 x 1140mm high, with aluminium chalk rail plugged | No | 5 |

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 9
 Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 8

Bill No. 9

Ironmongery

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Block W - New Multi-Purpose Classroom Block

Bill No. 9

Ironmongery

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General Repairs & Renovations and
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Mqhawe High School
General Repairs & Renovations and
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Section No. 8

Bill No. 10

Metalwork

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Block W - New Multi-Purpose Classroom Block

Bill No. 10

Metalwork

R

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>PVC-U pipes and fittings</u>			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
<u>Polypropylene pipes</u>			
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings			
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			
Carried to Collection			
Block W - New Multi-Purpose Classroom Block			
Bill No. 12			
Plumbing and Drainage (Provisional)			

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

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

RAINWATER DISPOSAL

Seamless aluminium prepainted gutters and rainwater pipes

1	150mm Half-round roof gutters with beaded front edge	m	137
2	100mm Diameter rainwater pipes	m	86
3	Extra over gutter for outlet for 100mm pipe	No	16
4	Extra over rainwater pipe for bend	No	36
5	Extra over rainwater pipe for shoe	No	12

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

STORMWATER CHANNELS

Earthworks

6	Excavate average 125mm deep in earth to form "V" drain profile	m3	18		
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Concrete, Formwork and Reinforcing

25MPa/19mm Reinforced concrete to bottom and sides of "V" drain

7	"V" drains	m3	18		
8	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	140		
9	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	144		
10	Type 193 fabric reinforcement in concrete surface beds etc	m2	140		
11	Expansion joints with 12mm bitumen impregnated softboard between vertical concrete and brick surfaces	m	132		

FIRE APPLIANCES ETC

12	"Chubb" hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1		
13	9kg Dry chemical powder fire extinguisher	No	2		

Fire hydrants

14	100mm Fire hydrant "Storz" type	No	1		
----	---------------------------------	----	---	--	--

WATER SUPPLIES TO FIRE APPLIANCES

Sans 2-1/2 class medium steel piping black/galvanised

15	25 NB screwed	m	8		
16	25 NB screwed union	No	5		

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
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17	50 NB screwed union	No	4
18	25 NB barrel nipple screwed	No	6
19	25 NB welded or screwed socket/screw type	No	4
20	25 NB welded or screwed type elbow	No	2
21	50 NB Galvanised screw type reducing tee	No	2
22	50/25 NB Screw type reducing tee	No	2
23	100 NB Galvanised screw type reducing tee	No	2
24	50/25 NB Reducer	No	1
25	100/50 NB Concentric SANS62 reducer	No	1
26	Painting and labelling of all 50NB screwed fire pipework (25NB) as per SANS 10252 and SANS10140	m	6
27	Painting and labelling of all pipework (25NB) as per SANS 10252 and SANS10140	m	8
28	Flashing of pipe work and pressure testing of whole system		Item
29	Commissioning of complete system		Item
<u>PHOTOLUMINESCENT SIGNS</u>			
30	150 x 150mm Sign	No	3
31	Hydrant and arrow sign (290 x 290mm size per sign) with steel pole and mass concrete base	No	2
32	Emergency assembly point sign with steel pole and mass concrete base	No	1

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 12
 Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
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Plumbing and Drainage (Provisional)

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Block W - New Multi-Purpose Classroom Block

Bill No. 12

Plumbing and Drainage (Provisional)

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General Repairs & Renovations and
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5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	680		
9	2.5mm ² 3-Core	m	610		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block W - New Multi-Purpose Classroom Block					
Bill No. 13					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	1,290
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	129
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20	Deep type (concrete type) round outlet box for 20mm conduit	No	129
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21	Standard draw box for 20mm conduit	No	129
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22	50 x 100 x 50mm Outlet box	No	129
----	----------------------------	----	-----

23	100 x 100 x 50mm Outlet box	No	129
----	-----------------------------	----	-----

24	100 x 100 x 50mm Outlet box with blank cover plate	No	129
----	--	----	-----

CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290
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DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290
----	--	---	-----

LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1
----	--------------------------------	----	---

28	16A Flush mounted two lever one-way switch unit	No	20
----	---	----	----

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 13
 Electrical work

R

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General Repairs & Renovations and
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Bill No. 13

Electrical work

COLLECTION

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Block W - New Multi-Purpose Classroom Block

Bill No. 13

Electrical work

R

Mqhawe High School
General Repairs & Renovations and
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[illegible]

ON FIBRE-CEMENT BOARD SURFACES

Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint

3	Fascias and barge boards, including priming metal jointing strips	m2	83		
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ON WOOD SURFACES

One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint

4	Laminated beam	m2	42		
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5	Doors	m2	33		
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ON METAL SURFACES

One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel

6	Door frames	m2	39		
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7	Windows	m2	160		
---	---------	----	-----	--	--

Carried to Collection

Block W - New Multi-Purpose Classroom Block
 Bill No. 15
 Paintwork

R

Mqhawe High School
General Repairs & Renovations and
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Bill No. 15

Paintwork

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Block W - New Multi-Purpose Classroom Block

Bill No. 15

Paintwork

R

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General Repairs & Renovations and
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7	Ceilings, Partitions and Access Flooring		346		
8	Floor Coverings, Wall Linings, etc.		347		
9	Ironmongery		350		
10	Metalwork		353		
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12	Plumbing and Drainage (Provisional)		360		
13	Electrical work		365		
14	Glazing		366		
15	Paintwork		369		
				R	
Carried to Final Summary					
Block W - New Multi-Purpose Classroom Block					

FILLING ETC

Compaction of surfaces

8	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 98% Mod AASHTO density	m2	22
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WEED KILLERS, INSECTICIDES, ETC

Soil insecticide in accordance with SANS 5859

9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	22
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Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 1
 Earthworks (Provisional)

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 1

Earthworks (Provisional)

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Block X - New Gate House and Bin Area

Bill No. 1

Earthworks (Provisional)

R

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/19mm concrete

1	Ground beams	m3	4
2	Surface beds	m3	3
3	Pavings	m3	1

TEST CUBES

4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
---	--	----	---

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

5	Surface beds, slabs, etc	m2	15
---	--------------------------	----	----

Finishing top surfaces of concrete smooth with a power float

6	Surface beds, slabs, etc	m2	22
---	--------------------------	----	----

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

7	Edges, risers, ends and reveals not exceeding 300mm high	m	20
---	--	---	----

MOVEMENT JOINTS ETC

Expansion joints with 12mm bitumen impregnated softboard, including raking out polysulphate sealant

8	Not exceeding 300mm high through slabs	m	20
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Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 2
 Concrete, Formwork and Reinforcement

R

REINFORCEMENT

Mild and high tensile steel reinforcement to structural concrete work

9	Bars in various diameter	t	0.32	
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Fabric reinforcement

10	Type 395 fabric reinforcement in concrete surface beds etc	m2	17	
----	--	----	----	--

Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 2
 Concrete, Formwork and Reinforcement

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 2

Concrete, Formwork and Reinforcement

COLLECTION

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Block X - New Gate House and Bin Area

Bill No. 2

Concrete, Formwork and Reinforcement

R

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>BRICKWORK</u>			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	Piers m3	0.2	
2	One brick walls m2	20	
<u>BRICKWORK SUNDRIES</u>			
<u>2,5mm Galvanised brick reinforcement</u>			
3	150m Wide reinforcement built in horizontally m	50	
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
4	110 x 75mm Lintels in lengths not exceeding 3m m	7	
<u>Galvanised wire ties etc</u>			
5	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber No	18	
<u>Air bricks etc</u>			
6	229 x 152mm Clay vermin proof air brick No	3	
Carried to Collection			R
Block X - New Gate House and Bin Area			
Bill No. 3			
Masonry			

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General Repairs & Renovations and
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Mqhawe High School
General Repairs & Renovations and
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Bill No. 3

Masonry

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Block X - New Gate House and Bin Area

Bill No. 3

Masonry

R

Item No		Quantity	Rate	Amount
	BILL NO. 4			
	<u>WATERPROOFING</u>			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls	m2	3	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	9	
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	12 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	16	
Carried Forward to Summary of Section No. 9				R
Block X - New Gate House and Bin Area				
Bill No. 4				
Waterproofing				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head			
	<u>ROOF COVERINGS</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to timber purlins with equal spacing (timber purlins measured elsewhere)</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	20	
2	Ridge cappings 475mm girth	m	2	
3	Hip cappings 475mm girth	m	9	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 293g/m² and a Class I fire rating in accordance with SANS 0177-3</u>			
4	Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	20	
	Carried Forward to Summary of Section No. 9			
	Block X - New Gate House and Bin Area			
	Bill No. 5			
	Roof Coverings			

R

Carried to Collection

Block X - New Gate House and Bin Area
Bill No. 6
Carpentry and Joinery

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 6

Carpentry and Joinery

COLLECTION

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Block X - New Gate House and Bin Area

Bill No. 6

Carpentry and Joinery

R

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

3	<p><u>Gypsum plasterboard cornices</u></p> <p>75mm Coved cornices</p>	m	16	
	<p style="text-align: right;">Carried to Collection</p> <p>Block X - New Gate House and Bin Area Bill No. 7 Ceilings, Partitions and Access Flooring</p>			<p>R</p>

Mqhawe High School
General Repairs & Renovations and
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Section No. 9

Bill No. 7

Ceilings, Partitions and Access Flooring

COLLECTION

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Block X - New Gate House and Bin Area

Bill No. 7

Ceilings, Partitions and Access Flooring

R

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General Repairs & Renovations and
Construction of New Buildings**

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head

LOCKS

Manufactured by "Union"

1	Solid art 390/313 Four Lever mortice lockset with and including Satin Chrome Plated handles	No	1	
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SUNDRIES

Manufactured by "Union"

2	38mm Diameter door stop plugged and screwed to floor with a 50mm long brass screw	No	1	
---	---	----	---	--

Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 9
 Ironmongery

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 9

Ironmongery

COLLECTION

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Block X - New Gate House and Bin Area

Bill No. 9

Ironmongery

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
	<u>Welded screens and gates</u>			
1	Single hot dipped galvanised mild steel gate, 980mm x 2032mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres including all ironmongery to fix on wall and padlock set	No	1	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>Double rebated frames suitable for one brick walls</u>			
2	Frame for door 813 x 2032mm high	No	1	
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard school windows with flat burglar bars to opening sashes</u>			
3	Window size, 1022 x 949mm high	No	2	
4	Window size, 1511 x 949mm high	No	1	
	<u>FENCING</u>			
	<u>Galvanised pre-painted "clear Vu" fence with steel droppers, posts, gates post etc. including galvanised steel bolts, straining, eye bolts, etc.</u>			
5	Fence 2,05m high	m	1,300	
6	"Clear Vu" gate size 900 x2032mm high to match fencing profile, including hinges, heavy duty lockable bolt and 50mm brass padlock	No	1	
	Carried Forward to Summary of Section No. 9			
	Block X - New Gate House and Bin Area			
	Bill No. 10			
	Metalwork			

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds steel trowelled, on concrete</u>			
1	30mm Thick on floors and landings	m2	8	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic, on concrete</u>			
2	30mm Thick on floors and landings	m2	3	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled, on brickwork</u>			
3	On walls	m2	17	
4	On narrow widths	m2	1	
Carried Forward to Summary of Section No. 9				R
Block X - New Gate House and Bin Area				
Bill No. 11				
Plastering				

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium prepainted gutters and rainwater pipes</u>			
1	150mm Half-round roof gutters with beaded front edge	m	17	
2	100mm Diameter rainwater pipes	m	8	
3	Extra over gutter for outlet for 100mm pipe	No	2	
4	Extra over rainwater pipe for bend	No	6	
5	Extra over rainwater pipe for shoe	No	2	
	<u>STORMWATER CHANNELS</u>			
	<u>Earthworks</u>			
6	Excavate average 125mm deep in earth to form "V" drain profile	m3	3	
	<u>Concrete, Formwork and Reinforcing</u>			
	<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>			
7	"V" drains	m3	3	
8	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	22	
9	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	26	
	Carried to Collection			
	Block X - New Gate House and Bin Area			
	Bill No. 12			
	Plumbing and Drainage (Provisional)			

R

R

Block X - New Gate House and Bin Area
Bill No. 12
Plumbing and Drainage (Provisional)

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 12

Plumbing and Drainage (Provisional)

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Block X - New Gate House and Bin Area

Bill No. 12

Plumbing and Drainage (Provisional)

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

5	3P (N/O) CONTACTOR (LC1E3210U5)	No	1		
6	QAT-TRDM TIME SWITCH (QAT-TRDM)	No	1		
7	Surge arrester, 3P+N, 350V (A9L20600)	No	1		
<u>CABLES</u>					
8	1.5mm ² 3-Core	m	50		
9	2.5mm ² 3-Core	m	30		
10	16mm ² 3-Core	m	60		
<u>Cable joints</u>					
11	1.5mm ² 3-Core	No	2		
12	16mm ² 3-Core	No	2		
<u>Cable terminations</u>					
13	1.5mm ² 3-Core	No	40		
14	2.5mm ² 3-Core	No	40		
15	16mm ² 3-Core	No	2		
<u>EARTH CONDUCTORS</u>					
<u>Bare copper earth conductors laid with cable in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
<u>PVC insulated copper earth conductors laid with cables in trenches or sleeve pipes and bonded to cables with plastic strapping at 2m centres</u>					
16	6mm ²	m	60		
<u>SUNDRIES</u>					
17	Low tension room accessories comprising first aid kit, pair of rubber gloves and notices on door and inside the room complying with the Occupational Health and Safety Act, 1993	No	1		
Carried to Collection				R	
Block X - New Gate House and Bin Area					
Bill No. 13					
Electrical work					

GENERAL LIGHTING AND POWER

CONDUITS ETC

Rigid PVC conduits

18	20mm Diameter	m	80		
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PVC conduit accessories

19	Round outlet box for 20mm conduit	No	8		
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20	Deep type (concrete type) round outlet box for 20mm conduit	No	8		
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21	Standard draw box for 20mm conduit	No	8		
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22	50 x 100 x 50mm Outlet box	No	8		
----	----------------------------	----	---	--	--

23	100 x 100 x 50mm Outlet box	No	8		
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24	100 x 100 x 50mm Outlet box with blank cover plate	No	8		
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CONDUCTORS

Bare copper conductors drawn into conduit, trunking or power skirting

PVC insulated stranded copper conductors drawn into conduit, trunking or power skirting

Heat resistant silicon insulated stranded copper conductors drawn into conduit, trunking or power skirting

25	1.5mm ²	m	290		
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DRAW-WIRES

26	Galvanised steel draw-wires drawn into conduit	m	290		
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LIGHT SWITCHES, SOCKET OUTLETS, ETC

27	Flush mounted bell push button	No	1		
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28	16A Flush mounted two lever one-way switch unit	No	2		
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Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 13
 Electrical work

R

R

Block X - New Gate House and Bin Area
Bill No. 13
Electrical work

Mqhawe High School
General Repairs & Renovations and
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Bill No. 13

Electrical work

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Block X - New Gate House and Bin Area

Bill No. 13

Electrical work

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Mqhawe High School
General Repairs & Renovations and
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[illegible]

ON FIBRE-CEMENT BOARD SURFACES

One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use

3	Fascias and barge boards, including priming metal jointing strips	m2	8
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ON WOOD SURFACES

Three coats superior quality clear matt varnish

4	Doors	m2	3
---	-------	----	---

Carried to Collection

Block X - New Gate House and Bin Area
 Bill No. 15
 Paintwork

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 9

Bill No. 15

Paintwork

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Block X - New Gate House and Bin Area

Bill No. 15

Paintwork

R

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>EXTERNAL WORK</u>			
<u>TEMPORARY PARKHOMES</u>			
<u>"M-Projects" or other equal approved temporary parkhome unit</u>			
Rates for the following Parkhomes to include standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings and green chalk boards:			
1	Provide standard classroom size 7000 x 7000mm temporary parkhomes or nearest size on site for rental and maintenance for educational facilities during construction phase including levelling, positioning on site and connection to an electrical supply including issuing of compliance certificates for a period of 30 months and removal after construction period expires.	No	16
2	Transport to and from site of parkhomes as per distance between supplier and site	No	16
Rates for the following Parkhomes to include standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, sanitary fittings, water supply and soil drainages piping including connections:			
3	Provide standard toilets temporary parkhomes on site for rental and maintenance during construction phase to serve as a "Teachers toilets" including levelling, positioning on site and connection to an electrical supply, drainage system, water supply including issuing of compliance certificates for a period of 8 months and removal from site after construction period expires	No	1
4	Transport to and from site of parkhomes as per distance between supplier and site	No	1
Carried to Collection			R
External Works Bill No. 1 External Work			

RELOCATING OF EXISTING PARKHOME CLASSROOMS

- 5 Move/shift existing 7000 x 7000mm classroom park home from one area to another inside the school premises. Distance between the areas is approximately 200m, including levelling and setting up the new area

No

2

EXTERNAL WORKS

SUPPLEMENTARY PREAMBLES

View site

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

Carried to Collection

R

External Works
 Bill No. 1
 External Work

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items

Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site

Removal of materials

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.

Carried to Collection

External Works
 Bill No. 1
 External Work

R

Removal of asbestos material

The removal of asbestos shall be carried out strictly by a certified entity, registered in accordance with the Occupational Health and Safety Act and the Asbestos Regulation.

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation, and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose.

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed of, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material.

Under no circumstances is the contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the contractor will be held responsible contractually and may further be prosecuted criminally.

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in the items for removal of asbestos material. No further claims in this regard will therefore be entertained.

DEMOLITIONS ETC

Taking down and removing

6	Security wire fence with pedestrians and vehicles gates including removing fence and gates posts	m	600
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Carried to Collection

External Works
Bill No. 1
External Work

R

Mqhawe High School
General Repairs & Renovations and
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	<u>Demolishing and removing</u>				
7	Single storey building 620m ² on plan and 2,8m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
8	Single storey building 91m ² on plan and 2,8m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
9	Single storey building 180m ² on plan and 2,6m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
10	Single storey building 146m ² on plan and 2,70m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
11	Single storey building 146m ² on plan and 2,70m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
12	Single storey building 20m ² on plan and 2,6m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and corrugated roof sheets including carting away of all material	No	1		
13	Single storey building 4m ² on plan and 2,6m high to eaves comprising two gable ends, reinforced concrete foundations and surface bed, 190mm external and internal block walls, timber roof structure and asbestos roof sheets including carting away of all material	No	1		
Carried to Collection					R
External Works					
Bill No. 1					
External Work					

LANDSCAPING

Note: Landscaping to be completed at least three months before final completion of the project for maintenance allowance

Excavate in earth and dispose on site

14	Not exceeding 150mm deep to remove humps, form shallow ditches, etc	m2	10,400
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Ground preparation

15	Cultivation and preparation of areas to be planted	m2	10,400
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Topsoil supplied by the contractor, including spreading and levelling

16	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	1,560
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Compost, lime and fertilizer

17	Compost in plant beds, holes for trees, shrubs, etc	m3	832
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Trees

18	Acacia melanoxylon 600mm high	No	15
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Grassing, ground covers, etc

19	"Kikuyu" rolls or other similar approved 50mm thick	m2	10,400
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Rockery boulders

20	Rockery boulder approximately 400mm diameter supplied by the contractor	No	600
----	---	----	-----

Maintenance

21	Allow for maintaining landscaping for a period of 2 months, including watering, weeding, cutting, replacing dead plants, etc	Item	
----	--	------	--

Carried to Collection

External Works
 Bill No. 1
 External Work

R

**ROADWORK, PARKING AREAS AND
PAVING**

DRIVEWAY

SUPPLEMENTARY PREAMBLES

Testing of material and filling

Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series

Site clearance

22	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	562
	<u>Excavation in earth not exceeding 2m deep</u>		
23	Reduced levels under floors	m3	242
	<u>Extra over bulk excavation in earth for excavation in</u>		
24	Soft rock	m3	24
25	Hard rock	m3	12
	<u>Extra over all excavations for carting away</u>		
26	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	562
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>		
27	Filling of G5 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	73
28	Filling of G6 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	73
29	Filling of G9 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	84

Carried to Collection

External Works
Bill No. 1
External Work

R

Mqhawe High School
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Construction of New Buildings

30	Filling of G10 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	84		
	<u>Compaction of surfaces</u>				
31	Compaction of ground surfaces under pavings 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	562		
32	Apply "Weedmaster Turfmaster" weedkiller (at a rate of 40-45ml to 5 litres of water per 50m²) to surface of ground	m2	562		
	<u>Prescribed density tests on filling</u>				
33	In-situ dry density test in accordance with method A10(b) of TMH1	No	5		
34	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	5		
35	CBR test in accordance with method A8 of TMH1	No	5		
	<u>Bituminous premix road surfacing</u>				
36	Prime coat	m2	562		
37	30mm Thick asphalt surface paving to parking areas, roadways, etc	m2	562		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
38	150 x 300mm High kerbs (SANS 927 fig 6) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	430		
Carried to Collection				R	
External Works					
Bill No. 1					
External Work					

<u>PARKING & ASSEMBLY AREA</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Testing of material and filling</u>					
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series					
<u>Site clearance</u>					
39	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	2,056		
<u>Excavation in earth not exceeding 2m deep</u>					
40	Reduced levels under floors	m3	884		
<u>Extra over bulk excavation in earth for excavation in</u>					
41	Soft rock	m3	88		
42	Hard rock	m3	44		
<u>Extra over all excavations for carting away</u>					
43	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	884		
<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>					
44	Bedding river and top soil mix compacted to 93% Mod AASHTO density	m3	82		
45	Filling of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	501		
46	Filling of G6 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	308		
47	Filling of G9 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	206		
Carried to Collection					
External Works					
Bill No. 1					
External Work					

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

	<u>Compaction of surfaces</u>				
48	Compaction of ground surfaces under pavings 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	2,056		
49	Apply "Weedmaster Turfmaster" weedkiller (at a rate of 40-45ml to 5 litres of water per 50m²) to surface of ground	m2	2,056		
	<u>Prescribed density tests on filling</u>				
50	In-situ dry density test in accordance with method A10(b) of TMH1	No	5		
51	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	5		
52	CBR test in accordance with method A8 of TMH1	No	5		
	<u>Precast concrete paving of 500 x 500 x 40mm precast concrete paving slabs with smooth finish laid on 50mm thick river sand bed including preparation of ground filling</u>				
53	Paving slabs laid with butt joints	m2	2,056		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
54	150 x 300mm High kerbs (SANS 927 fig 6) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	657		
Carried to Collection					
External Works					
Bill No. 1					
External Work					

R

<u>COVERED WALKWAY</u>							
<u>SITE CLEARANCE</u>							
<u>Site clearance</u>							
55	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	1,097				
56	Stripping average 50mm thick layer of top soil and depositing material in prescribed stock piles on site	m2	1,097				
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>							
<u>EXCAVATIONS, ETC</u>							
<u>Excavation in earth not exceeding 2m deep</u>							
57	Thickening under surface beds, etc	m3	549				
<u>Extra over trench and hole excavations in earth for excavation in</u>							
58	Soft rock	m3	55				
59	Hard rock	m3	27				
<u>Extra over all excavations for carting away</u>							
60	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	549				
<u>Keeping excavations free of water</u>							
61	Keeping excavations free of all water other than subterranean water		Item				
<u>FILLING ETC</u>							
<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>							
62	Bedding river and top soil mix compacted to 93% Mod AASHTO density	m3	44				
Carried to Collection						R	
External Works							
Bill No. 1							
External Work							

63	Filling of G5 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	165
64	Filling of G6 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	165
65	Filling of G9 material in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	110

66	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 98% Mod AASHTO density	m2	1,097
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67	Under paving etc	m2	1,097
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68	Surface beds	m3	143
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69	Surface bed thickening	m3	84
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70	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	18
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

71	Surface beds, slabs, etc	m2	1,075		
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough formwork to sides

72	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	340		
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MOVEMENT JOINTS ETC

Expansion joints with 22mm soft board between vertical concrete and brick surface

73	Exceeding 300mm high to edges of surface beds	m2	313		
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REINFORCEMENT

Fabric reinforcement

74	Type 395 fabric reinforcement in concrete surface beds etc	m2	11		
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WATERPROOFING

SEALING STRIPS, JOINT SEALANTS, ETC

Pre compressed bitumen impregnated foam plastic joint sealing strips

75	22 x 45mm In joints between concrete slab and walls				
		m	122		

Carried to Collection

External Works
 Bill No. 1
 External Work

R

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0.50mm - G550 AZ150, ColorPlus® Steel IBR with integral stiffening rib steel roof sheeting and accessories with ColorPlus® and ZincAL® finish on one side and protective primer coating on the reverse side fixed to steel purlins or rails

76	Roof covering with pitches not exceeding 25 degrees	m2	1,174
77	10 x 250 x 8mm Thick formed aluminium fascia/gutter combination	m	803

GALVANISED STRUCTURAL STEEL WORK

78	50 x 50 x 3mm Equal angle	t	8.07
79	100 x 50 x 20 x 3mm Cold formed channels	t	8.56
80	50 x 50 x 4Cold formed square hollow	t	1.73
81	M16 Expansion bolts	No	776

REPAIRS TO COMBI COURT

Breaking up and removing

82	40mm Thick tarmacadam paving	m2	450
83	Plastic coated diamond mesh wire fence with steel posts	m	90

New paving

84	Base course of crushed stone in accordance with SABS 1200 ME compacted to 98% Mod AASHTO density	m3	36
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Carried to Collection

External Works
 Bill No. 1
 External Work

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

	<u>Compaction of surfaces</u>				
85	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	450		
	<u>Bituminous premix road surfacing</u>				
86	40mm Thick to parking areas, roadways, etc	m2	450		
87	1,000 x 180 x 180mm Precast concrete barrier kerb set in ground	m	90		
	<u>Paintwork</u>				
	<u>Prepare and apply one coat white reflection road marking paint on bituminous road surfacing, precast concrete paving blocks, etc.</u>				
88	80mm Wide lines	m	178		
89	80mm Wide lines circular on plan	m	44		
	<u>Fence enclosure</u>				
	<u>Galvanised plastic coated diamond mesh fence with steel pipe posts, stays, gates etc. including galvanised steel bolts straining eyebolts etc.,site clearance and preparation of ground</u>				
90	Fence 2,4m high of four strands 3mm diameter straining wire tied to posts and eye bolts and the vertical height covered with plastic coated diamond wire mesh tied at 450mm centres to each straining wire	m	90		
91	Extra over 40mm diameter straining and gate posts 2,5m long vertically including base	No	4		
92	Gate of 40mm diameter framing 800 x 2000mm high vertically with one diagonal brace, the vertical section covered with plastic coated diamond mesh fence including hinges, lockable barrel bolt etc	No	1		
	Carried to Collection			R	
	External Works				
	Bill No. 1				
	External Work				

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

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SPORTS FACILITIES

OUT DOOR CHESS

Compaction of surfaces

97	Compaction of ground surfaces under floor etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	49		
	<u>Soil insecticide in accordance with SANS 5859</u>				
98	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	49		
	<u>25MPa/19mm Concrete</u>				
99	Pavings	m3	2		
	<u>Finishing top surfaces of concrete smooth with wood float</u>				
100	Surface beds, slabs, etc	m2	19		
	<u>Rough formwork to sides</u>				
101	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19		
	<u>Fabric reinforcement</u>				
102	Type 193 fabric reinforcement in concrete surface beds etc	m2	19		
	<u>Precast concrete paving of 600 x 600 x 40mm precast concrete paving slabs with smooth finish laid on 50mm thick river sand bed including preparation of ground filling</u>				
103	Paving slabs laid with butt joints	m2	23		

Carried to Collection

External Works
 Bill No. 1
 External Work

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DETAIL 3

Concrete, Formwork and Reinforcing

25MPa/19mm Concrete

114	Steps, urinal steps, cupboard platforms, etc	m3	16	
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Concrete sundries

115	Finishing top surfaces of concrete smooth with steel trowel	m2	39	
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Rough formwork to sides

116	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	14	
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117	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	155	
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118	Sloping and stepped outer edges of stairs 580mm high extreme	m	4	
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Fabric reinforcement

119	Type 245 fabric reinforcement in concrete surface beds etc	m2	84	
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DETAIL 4 & 5

Concrete, Formwork and Reinforcing

25MPa/19mm Concrete

120	Top and sides of seating detail	m3	11	
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Concrete sundries

121	Finishing top surfaces of concrete smooth with steel trowel	m2	30	
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Carried to Collection

External Works
 Bill No. 1
 External Work

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WATER TANK & BASE SUPPORT

Excavations, etc

Excavation in earth not exceeding 2m deep

128	Trenches	m3	83	
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Extra over trench and hole excavations in earth for excavation in

129	Soft rock	m3	8	
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130	Hard rock	m3	4	
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Extra over all excavations for carting away

131	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	83	
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Risk of collapse of excavations

132	Sides of trench and hole excavations not exceeding 1,5m deep	m2	312	
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Keeping excavations free of water

133	Keeping excavations free of all water other than subterranean water		Item	
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Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 90% Mod AASHTO density

134	Backfilling to trenches, holes, etc	m3	83	
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135	Backfilling to under floors, steps, pavings, etc.	m3	80	
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Compaction of surfaces

136	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	160	
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Carried to Collection

External Works
 Bill No. 1
 External Work

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Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

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**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

	<u>Masonry</u>				
147	One brick wall of NFX bricks in class II mortar	m2	158		
148	Extra over brickwork for face brick "Horizon satin facebrick pointed with recessed and vertical joints"	m2	158		
149	Cement mortar surrounding 225mm x average 150mm high around water tank	m	232		
	<u>Plumbing and Drainage (Provisional)</u>				
	<u>Jo-Jo SG1 polyethylene drinking water tank with black lining internally</u>				
150	2500Litre circular tank 1,42m diameter x 1,86m high approximately 0,85m above ground level	No	40		
151	Set tank on top of tank stand, tie down tank with 6mm galvanised straining wire tied to mild steel "U" bar previously cast into concrete, strapped over tank and tied down on the opposite ends	No	40		
152	Outlet union for 15mm copper pipe including hole through tank	No	40		
	<u>Load Test</u>				
153	Fill tank with drinkable water to 50% of its capacity for a period of 10 days and then inspect for cracks, depression, etc	No	40		
	<u>SOIL DRAINAGE</u>				
	<u>PVC pipes</u>				
154	110mm Pipes laid in and including trenches not exceeding 1m deep	m	12		
155	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	125		
156	Backfilling to pipe trenches	m3	157		
	Carried to Collection			R	
	External Works				
	Bill No. 1				
	External Work				

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

	<u>Compaction of surfaces</u>				
157	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	82		
	<u>Filling of coarse river sand supplied by the contractor, consolidated</u>				
158	Under pipes etc	m3	4		
	<u>Brick inspection chambers including benching and channels (covers elsewhere)</u>				
159	1200 x 1200mm Brick manhole not exceeding 750mm deep internally	No	2		
160	Ditto, but exceeding 750mm and not exceeding 1000mm deep internally	No	3		
161	Ditto, but exceeding 1000mm and not exceeding 1250mm deep internally	No	2		
162	Ditto, but exceeding 1250mm and not exceeding 1500mm deep internally	No	2		
163	Ditto, but exceeding 1500mm and not exceeding 1750mm deep internally	No	1		
164	Ditto, but exceeding 1750mm and not exceeding 2000mm deep internally	No	2		
165	Ditto, but exceeding 2000mm and not exceeding 3000mm deep internally	No	1		
	<u>Cast iron covers etc</u>				
166	450 x 600mm x 72kg Double seal manhole cover and frame	No	13		
<p style="text-align: right;">Carried to Collection</p> <p>External Works Bill No. 1 External Work</p>					

STORMWATER DRAINAGE

Class 75D concrete pipes with interlocking joints

167	300mm Pipes laid in and including trenches not exceeding 1m deep	m	3
168	300mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	210
169	450mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	16
170	Backfilling to pipe trenches	m3	177

Compaction of surfaces

171	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	206
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Filling of coarse river sand supplied by the contractor, consolidated

172	Under pipes etc	m3	10
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Concrete block stormwater soakaway chamber (covers elsewhere)

173	1000 x 1000mm Concrete block manhole not exceeding 1500mm deep internally	No	164
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Cast iron covers etc

174	450 x 600mm x 72kg Double seal manhole cover and frame	No	164
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FENCING

Galvanised security fence including site clearance and preparation of ground

175	1,80m Galvanised pre-painted "clear Vu" fencing with steel droppers, posts, gates post etc, on flat slope 76.2mm x 12.7mm mesh aperture	m	600
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Carried to Collection

External Works
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 External Work

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Mqhawe High School
General Repairs & Renovations and
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<u>RETAINING STRUCTURES FORMED OF BRICKWORK</u>					
<u>SITE CLEARANCE</u>					
<u>Site clearance</u>					
181	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	260		
<u>BULK EXCAVATION, FILLING, ETC</u>					
<u>EXCAVATIONS ETC</u>					
<u>Open face excavation in earth</u>					
182	Cut and fill to embankment behind retaining blocks including trimming to slope	m3	660		
183	Cut to spoil	m3	2,040		
184	Banks to fill	m3	160		
<u>Extra over bulk excavations in earth for excavation in</u>					
185	Soft rock	m3	312		
186	Hard rock	m3	156		
<u>Compaction of surfaces</u>					
187	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 98% Mod AASHTO density	m2	800		
<u>Excavation in earth not exceeding 2m deep</u>					
188	Trenches	m3	145		
<u>Risk of collapse of excavations</u>					
189	Sides of trench and hole excavations not exceeding 1,5m deep	m2	264		
Carried to Collection				R	
External Works					
Bill No. 1					
External Work					

Mqhawe High School
General Repairs & Renovations and
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	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
190	To form embankments for retaining structures	m3	51		
	<u>25MPa/19mm unreinforced concrete</u>				
191	Strip footings	m3	61		
192	Retaining walls	m3	42		
	<u>Brickwork of NFP bricks in class II mortar</u>				
193	One brick walls	m2	500		
	<u>Stormwater concrete V-Drains at the toe of retaining wall</u>				
	<u>Earthworks</u>				
194	Excavate average 150mm deep in earth to form "V" drain profile	m3	33		
	<u>Concrete, Formwork and Reinforcing</u>				
	<u>25MPa/19mm Reinforced concrete to bottom and sides of "V" drain</u>				
195	"V" drains	m3	33		
196	Finishing top surface of "V" drains smooth with a steel trowel to falls	m2	220		
197	Rough formwork (Degree of accuracy III) to edges, risers, ends and reveals not exceeding 300mm high or wide	m	442		
198	Type 245 fabric reinforcement in concrete surface beds etc	m2	220		
199	Channel Type B complete, including excavations	m	18		
Carried to Collection				R	
External Works					
Bill No. 1					
External Work					

RENO MATTRESS CONSTRUCTION

MAKING GOOD OF EXISTING WORKS

R

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Section No. 10

Bill No. 1

External Work

COLLECTION

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External Works
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Mqhawe High School
General Repairs & Renovations and
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COLLECTION

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Carried to Final Summary

R

External Works

Bill No. 1

External Work

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Item No		Quantity	Rate	Amount
<u>BILL NO. 1</u>				
<u>PROVISIONAL SUMS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances				
<u>Profit</u>				
Where stated, the contractor may allow for profit if required				
<u>General attendance on nominated/selected subcontractors</u>				
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractor				
<u>Asbestos Inspection Authority (AIA)</u>				
1	Provide the Provisional Amount of R30,000.00 (Thirty thousand Rand) nett for Asbestos Inspection Authority (AIA) to be omitted in part or whole as instructed by Principal Agent	Item		30,000.00
2	Allow for attendance on item above if required	Item		
3	Allow for profit on item above if required	Item		
Carried to Collection				R
Provisional Sums				
Bill No. 1				
Provisional Sums				

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

BUDGETARY ALLOWANCES

Community Liaison Officer

4	Provide the Budgetary Amount of R300,000.00 (Three hundred thousand Rand) nett for Community Liaison Officer's Salary to be omitted in part or whole as instructed by Principal Agent	Item	300,000.00
5	Provide the Budgetary Amount of R150 000 (One hundred and fifty thousand Rand) nett for the full construction of septic tank, acid neutralising tank french drain to be measured and priced at Bill rates	Item	150,000.00
6	Provide the Budgetary Amount of R6000 (Six thousand Rand) nett for the supply and fixing of school name plate and Department of Education, all to the architect details	Item	6,000.00

Carried to Collection

R

Provisional Sums
 Bill No. 1
 Provisional Sums

Mqhawe High School
General Repairs & Renovations and
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Section No. 11

Bill No. 1

Provisional Sums

COLLECTION

Total Brought Forward from Page No.

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Amount

439

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Carried to Final Summary

R

Provisional Sums

Bill No. 1

Provisional Sums

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>CONTRACT PARTICIPATION GOALS (CPG)</u>			
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage Provisional Amounts and fixed percentages for profit and attendance have been provided, Only the provisional amount will be adjusted once the awarded tender amount and/or the values beneficiaries have been appointed, and the final values have been ascertained			
	<u>Minimum 30% Sub-Contracting</u>			
1	Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in C3.1 Project Specifications. This is the contractors allowance for the P & G's for the 30% sub-contractors (SMME's) after tender awards	Item		1,206,421.66
2	Allow for profit all inclusive of associated costs to the contractor for implementation	%		
3	Allow for attendance all inclusive of associated costs to the contractor for implementation	%		
	<u>Minimum Targeted Local Building Material Manufacturers</u>			
4	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	Item		116,562.48
5	Allow for profit all inclusive of associated costs to the contractor for implementation	%		
6	Allow for attendance all inclusive of associated costs to the contractor for implementation	%		
	Carried to Collection		R	
	Contract Participation Goals (CPG)			
	Bill No. 1			
	Contract Participation Goals (CPG)			

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

<u>Minimum Targeted Local Building Material Suppliers</u>				
7	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	Item		116,562.48
8	Allow for profit all inclusive of associated costs to the contractor for implementation	%		
9	Allow for attendance all inclusive of associated costs to the contractor for implementation	%		
<u>Minimum Targeted Local Labour Skills Development</u>				
10	Provision is made for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in C3.1 Project Specifications. This allowance is for the cost for a suitable qualified and experienced training service provider appointed by the main contractor including monitoring and monthly reporting	Item		268,093.70
11	Allow for profit all inclusive of associated costs to the contractor for implementation	%		
12	Allow for attendance all inclusive of associated costs to the contractor for implementation	%		
<u>Minimum Targeted Enterprise Development</u>				
13	A provision amount has been made allowed for the Minimum Targeted Enterprise Development CPG in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting	Item		1,165,624.79
14	Allow for profit all inclusive of associated costs to the contractor for implementation	%		
15	Allow for attendance all inclusive of associated costs to the contractor for implementation	%		
Carried to Collection			R	
Contract Participation Goals (CPG)				
Bill No. 1				
Contract Participation Goals (CPG)				

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

Minimum Targeted Skills Development Goals

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

- Stipends payable to the beneficiaries
- appointment of training coordinator
- appointment of mentor(where applicable)
- appointment of training service providers
- other additional costs as per table 3 of the standard
- monitoring and monthly reporting

Item 268,093.70

17 Allow for profit all inclusive of associated costs to the contractor for implementation

%

18 Allow for attendance all inclusive of associated costs to the contractor for implementation

%

National Youth Service Training and Development Programme

19 The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works(EPWP)

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

Item 672,093.97

20 Allow for monthly reporting based on the Implementation of the EPWP - NYS as per the specifications and all inclusive of associated costs to the contractor for implementation

%

Carried to Collection

R

Contract Participation Goals (CPG)
 Bill No. 1
 Contract Participation Goals (CPG)

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

Labour Intensive Participation Goal

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

Item

55,949.99

Carried to Collection

R

Contract Participation Goals (CPG)
Bill No. 1
Contract Participation Goals (CPG)

**Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings**

Section No. 12

Bill No. 1

Contract Participation Goals (CPG)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

442

443

444

445

Carried to Final Summary

R

Contract Participation Goals (CPG)

Bill No. 1

Contract Participation Goals (CPG)

Mqhawe High School
General Repairs & Renovations and
Construction of New Buildings

FINAL SUMMARY					
Section No		Page No		Amount	
1	Preliminaries	44			
2	Existing Blocks - [Block A, B, C, D, E, F, G, I, J, L & O]	105			
3	Block M - New Kitchen Block	151			
4	Block S - New Female Ablution Block	191			
5	Block T - New Male Ablution Block	231			
6	Block U - New Double Storey Classroom Block	276			
7	Block V - New Administration Block	325			
8	Block W - New Multi-Purpose Classroom Block	370			
9	Block X - New Gate House and Bin Area	407			
10	External Works	438			
11	Provisional Sums	441			
12	Contract Participation Goals (CPG)	446			
SUB-TOTAL A			R		
Contingencies @ 5% of Sub-total A to be used at Employer's discretion			Item		
Budgetary Amount of R2,436,552.97 (Two million four hundred and thirty six thousand five hundred and fifty two rand and ninety seven cents) nett for Escalation			Item	2,436,552.97	
SUB-TOTAL B			R		
ADD: VALUE ADDED TAX @15%			R		
Carried to Form of Tender			R		