



DEVELOPMENT BANK OF SOUTHERN AFRICA

**RENOVATIONS AND REFURBISHMENT AT
KOSEA MOEKA PRIMARY SCHOOL IN THE
NORTH WEST PROVINCE**

TENDER NO. RFP094/2022

UNPRICED BILLS OF QUANTITIES

-1-

- vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time
- vii) 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"

A1 DEFINITIONS AND INTERPRETATION

Clause 1.0 Clause 1.1 Definition of "Commencement Date" is added:

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

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

"Construction guarantee" means 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

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

"Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and 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

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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1	<p>No clause</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
	<p><u>OBJECTIVE AND PREPARATION</u></p> <p><u>A2 OFFER, ACCEPTANCE AND PERFORMANCE</u></p> <p><u>Clause 2.0</u></p>			
2	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A3 DOCUMENTS</u></p> <p><u>Clause 3.0</u></p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p>	Item		
3	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A4 DESIGN RESPONSIBILITY</u></p> <p><u>Clause 4.0</u></p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p>	Item		
4	<p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
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A5 EMPLOYERS AGENTS**Clause 5.0**

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

- 5 Fixed: _____ Value related: _____ Time related: _____

Item

A6 SITE REPRESENTATIVE**Clause 6.0**

- 6 Fixed: _____ Value related: _____ Time related: _____

Item

A7 COMPLIANCE WITH REGULATIONS**Clause 7.0**

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

- 7 Fixed: _____ Value related: _____ Time related: _____

Item

A8 WORKS RISK**Clause 8.0**

- 8 Fixed: _____ Value related: _____ Time related: _____

Item

A9 INDEMNITIES**Clause 9.0**

- 9 Fixed: _____ Value related: _____ Time related: _____

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A10 WORKS INSURANCES**Clause 10.0**

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

General insurances (clause 10

10.5 Damage to the Works

Clause 10.0 is amended by the addition of the following clauses

(a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary.

(b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**

(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6

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(d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties

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

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

(c) The contractor shall 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

(d) 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

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(e) 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.

10.7.2 Injury to persons or loss of or damage to property

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

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

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

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

10 Fixed: _____ Value related: _____ Time related: _____

Item

A11 LIABILITY INSURANCES

Clause 11.0

11 Fixed: _____ Value related: _____ Time related: _____

Item

A12 EFFECTING INSURANCES

Clause 12.0

12 Fixed: _____ Value related: _____ Time related: _____

Item

A13. No clause

13 Fixed: _____ Value related: _____ Time related: _____

Item

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A14 SECURITY**Clause 14.0**

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

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

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

14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5 or 14.6, 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

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

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

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

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

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

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

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

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

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

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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

14.5.5 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)

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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

14.8 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 Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

A15 PREPERATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No clause

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

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

15 Fixed: _____ Value related: _____ Time related: _____

Item

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A16 ACCESS TO THE WORKS**Clause 16.0**

16 Fixed:_____ Value related:_____ Time
related:_____

Item

A17 CONTRACT INSTRUCTIONS**Clause 17.0**

17 Fixed:_____ Value related:_____ Time
related:_____

Item

A18 SETTING OUT OF THE WORKS**Clause 18.0**

The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments

The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.

18 Fixed:_____ Value related:_____ Time
related:_____

Item

A19 ASSIGNMENT**Clause 19.0**

19 Fixed:_____ Value related:_____ Time
related:_____

Item

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A20 NOMINATED SUB-CONTRACTORS**Clause 20.0**

Clause 20.1.3 is amended by replacing it with the following:

No Clause

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

20 Fixed:_____ Value related:_____ Time related:_____

Item

A21 SELECTED SUBCONTRACTORS**Clause 21.0**

21 Fixed:_____ Value related:_____ Time related:_____

Item

A22 EMPLOYER'S DIRECT CONTRACTORS**Clause 22.0**

The Contractor shall allow the direct contractors and employers agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.

22 Fixed:_____ Value related:_____ Time related:_____

Item

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A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS**Clause 23.0**

23 Fixed: _____ Value related: _____ Time related: _____

Item

COMPLETION**A24 PRACTICAL COMPLETION****Clause 24.0**

24 Fixed: _____ Value related: _____ Time related: _____

Item

A25 WORK'S COMPLETION**Clause 25.0**

25 Fixed: _____ Value related: _____ Time related: _____

Item

A26 FINAL COMPLETION**Clause 26.0**

Clause 26.1.2 is amended by inserting # next to 26.1.2

26 Fixed: _____ Value related: _____ Time related: _____

Item

A27 LATENT DEFECTS LIABILITY PERIOD**Clause 27.0**

27 Fixed: _____ Value related: _____ Time related: _____

Item

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A28 SECTIONAL COMPLETION**Clause 28.0**

28 Fixed:_____ Value related:_____ Time
related:_____

Item

A29 REVISION OF DATE FOR PRACTICAL COMPLETION**Clause 29.0**

Clause 29.1.1 shall be deemed to be omitted and replaced by the following:

Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project

It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above

29 Fixed:_____ Value related:_____ Time
related:_____

Item

A30 PENALTY FOR NON-COMPLETION**Clause 30.0**

30 Fixed:_____ Value related:_____ Time
related:_____

Item

PAYMENT**A31 INTERIM PAYMENT TO THE CONTRACTOR****Clause 31.0**

Interim payment to the contractor (clause 31)

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

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

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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 31.9 is amended by replacing "seven (7) calender days" with "thirty (30) calender days" and by deleting the words "subject to the contractor giving the employer a tax invoice for the amount due

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

A32 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor"

31 Fixed: _____ Value related: _____ Time related: _____

Item

A33 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

32 Fixed: _____ Value related: _____ Time related: _____

Item

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A34 FINAL ACCOUNT AND FINAL PAYMENT**Clause 34.0**

Clause 34.1 is amended by removing # next to 34.1

Clause 34.2 is amended by inserting # next to 34.2

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

Clause 34.13 is amended by replacing "seven (7) calendar days" with "thirty (30) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"

33 Fixed: _____ Value related: _____ Time related: _____

Item

A35 PAYMENT TO OTHER PARTIES**Clause 35.0**

34 Fixed: _____ Value related: _____ Time related: _____

Item

CANCELLATION**A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT****Clause 36.0**

Clause 36.1 is amended by the addition of the following :

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

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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

35 Fixed:_____ Value related:_____ Time related:_____

Item

A37 TERMINATION BY EMPLOYER - LOSS AND DAMAGE

Clause 37.0

36 Fixed:_____ Value related:_____ Time related:_____

Item

A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE

Clause 37.0

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

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

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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.

37 Fixed: _____ Value related: _____ Time related: _____

Item

A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

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

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

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

38 Fixed: _____ Value related: _____ Time related: _____

Item

A39 CANCELLATION - CESSATION OF THE WORKS

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) working days of completion of such report"

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39	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>DISPUTE</u></p> <p><u>A40 DISPUTE SETTLEMENT</u></p> <p><u>Clause 40.0</u></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: 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 cost concerning the mediation and equally share the costs of the mediator and related costs</p>	Item		
40	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>SUBSTITUTE PROVISIONS</u></p> <p><u>A41 STATE CLAUSES</u></p> <p><u>Clause 41.0</u></p>	Item		
41	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>CONTRACT VARIABLES</u></p> <p><u>THE SCHEDULE (C1.2 CONTRACT DATA)</u></p> <p><u>A42 PRE-TENDER INFORMATION</u></p>	Item		
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Clause 42.0

Tenderers are referred to the notes to tenderers for variables pertaining to this contract.

42 Fixed:_____ Value related:_____ Time related:_____

Item

A42 POST-TENDER INFORMATION**Clause 42.0**

The required post-tender information shall be inserted in the agreement after consultation with the contractor

43 Fixed:_____ Value related:_____ Time related:_____

Item

SECTION B: JBCC PRELIMINARIES**B1.0 DEFINITIONS AND INTERPRETATION****B1.1 Definitions and interpretation**

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

44 Fixed:_____ Value related:_____ Time related:_____

Item

B2.0 DOCUMENTS**B2.1 Checking of documents**

45 Fixed:_____ Value related:_____ Time related:_____

Item

B2.2 Provisional bills of quantities

46 Fixed:_____ Value related:_____ Time related:_____

Item

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B2.3 Availability of construction documentation

47 Fixed: _____ Value related: _____ Time related: _____

Item

B2.4 Interests of agents

48 Fixed: _____ Value related: _____ Time related: _____

Item

B2.5 Priced documents

49 Fixed: _____ Value related: _____ Time related: _____

Item

B2.6 Tender submission

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)".

50 Fixed: _____ Value related: _____ Time related: _____

Item

B3.0 THE SITE**B3.1 Defined works area**

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the Principal Agent on handing over of the site

51 Fixed: _____ Value related: _____ Time related: _____

Item

B3.2 Geotechnical investigation

52 Fixed: _____ Value related: _____ Time related: _____

Item

B3.3 Inspection of the site

Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission

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B4.0 MANAGEMENT OF CONTRACT

B4.1 Management of the works

62 Fixed:_____ Value related:_____ Time related:_____

Item

B4.2 Programme for the works

63 Fixed:_____ Value related:_____ Time related:_____

Item

B4.3 Progress meetings

64 Fixed:_____ Value related:_____ Time related:_____

Item

B4.4 Technical meetings

65 Fixed:_____ Value related:_____ Time related:_____

Item

B4.5 Labour and plant records

66 Fixed:_____ Value related:_____ Time related:_____

Item

B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS

B5.1 Samples of materials

67 Fixed:_____ Value related:_____ Time related:_____

Item

B5.2 Workmanship samples

68 Fixed:_____ Value related:_____ Time related:_____

Item

B5.3 Shop drawings

69 Fixed:_____ Value related:_____ Time related:_____

Item

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B5.4 Compliance with manufacturers instructions

70 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.0 TEMPORARY WORKS AND PLANT

B6.1 Deposits and fees

71 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.2 Enclosure of the works

72 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.3 Advertising

73 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.4 Plant, equipment, sheds and offices

74 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.5 Main notice board

75 Fixed: _____ Value related: _____ Time
related: _____

Item

B6.6 Subcontractors notice board

76 Fixed: _____ Value related: _____ Time
related: _____

Item

B7.0 TEMPORARY SERVICES

B7.1 Location

77 Fixed: _____ Value related: _____ Time
related: _____

Item

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B7.2 Water78 Fixed: _____ Value related: _____ Time
related: _____

Item

B7.3 Electricity79 Fixed: _____ Value related: _____ Time
related: _____

Item

B7.4 Telecommunication facilities80 Fixed: _____ Value related: _____ Time
related: _____

Item

B7.5 Ablution facilities81 Fixed: _____ Value related: _____ Time
related: _____

Item

B8.0 PRIME COST AMOUNTS**B8.1 Responsibility for prime cost amounts**82 Fixed: _____ Value related: _____ Time
related: _____

Item

9.0 ATTENDANCE ON N/S SUBCONTRACTORS**B9.1 General attendance**83 Fixed: _____ Value related: _____ Time
related: _____

Item

B9.2 Special attendance84 Fixed: _____ Value related: _____ Time
related: _____

Item

B9.3 Commissioning - fuel, water and electricity85 Fixed: _____ Value related: _____ Time
related: _____

Item

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B10.0 FINANCIAL ASPECTS**B10.1 Statutory taxes, duties and levies**

Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)

86 Fixed: _____ Value related: _____ Time related: _____

Item

B10.2 Payment for preliminaries

87 Fixed: _____ Value related: _____ Time related: _____

Item

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 "in his priced bills of quantities / lump sum document submitted with his tender offer".

88 Fixed: _____ Value related: _____ Time related: _____

Item

B10.4 Payment certificate cash flow

89 Fixed: _____ Value related: _____ Time related: _____

Item

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

90 Fixed: _____ Value related: _____ Time related: _____

Item

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

91 Fixed: _____ Value related: _____ Time related: _____

Item

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101

B11.12 Tenant installations

Fixed: _____ Value related: _____ Time
related: _____

Item

B12. SCHEDULE OF VARIABLES**B12.1 Schedule of variables**

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

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

12.1 PRE TENDER INFORMATION**12.1.1 Provisional Bills of Quantities**

[2.2] The quantities are provisional **YES**

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete **YES**

12.1.3 Interest of agents

[2.4] Details: NIL

12.1.4 Defined works area

[3.1] Details: The work area will be pointed out to the contractor by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations.

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12.1.5 Geotechnical investigation

A Geotechnical Investigation Report is included in this document.

12.1.6 Existing premises occupied

[3.4] Specific requirements: The premises will be in use and occupied during the course of this contract. The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes.

12.1.7 Previous work - dimensional accuracy

The contractor shall, within reasonable period after taking possession of the site, but not exceeding ten (10) percent of the construction period or twenty (20) working days whichever is the lesser, check existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed

12.1.8 Previous work - defects

The contractor on becoming aware of a defect in work previously executed shall forthwith notify the principal agent requesting a contract instruction regarding such defect

12.1.9 Services - known

Existing services and points of connection are shown on the site plan or will be pointed out on the site by the principal agent

12.1.10 Protection of trees

[3.9] Specific requirements: Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged.

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12.1.11 Inspection of adjoining properties

The contractor shall make his own arrangements with the owners of adjoining properties in order to execute the works

12.1.12 Enclosure of the works

The contractor shall erect, maintain and remove on completion, hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others

12.1.13 Offices

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, suitable 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, 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] Specific requirements: NIL

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

Option B (by employer - free of charge) NO

Option C (by b employer - metered) NO

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

Option B (by employer - free of charge) NO

Option C (by b employer - metered)NO

12.1.18 Telecommunications

[7.4] Telephone NO

Facsimile NO

E-mail **YES****12.1.19 Ablution facilities**[7.5] Option A (by contractor) **YES**

Option B (by employer - free of charge) NO

Option C (by employer - metered) NO

12.1.20 Protection of existing/sectionally occupied works[11.2] Protection is required **YES****12.1.21 Special attendance**[9.2] Subcontractor (1) details:Subcontractor (2)
details:Subcontractor (3) details:Subcontractor (4)
details:**12.1.22 Protection of works**

[11.1] Specific requirements:N/A

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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: N/A

12.2 POST-TENDER INFORMATION**12.2.1 Payment of preliminaries**

[10.2] Option A (pro-rated) YES/NO

Option B (calculates) 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: N/A

SECTION C: SPECIFIC PRELIMINARIES

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

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C1 CONTRACT DRAWINGS

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

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

102 Fixed:_____ Value related:_____ Time related:_____

Item

C2 GENERAL PREAMBLES

These tender documents "General Specification (PW 371-A) July 2013" and "Particular Specification (PW 371-B) July 2013" which are both obtainable on Public Works website alternatively a copy can be e-mailed on request from the Quantity Surveyor offices, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. No claim arising from brevity of description of items fully described in the said Preambles for Trades will be entertained

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

103 Fixed:_____ Value related:_____ Time related:_____

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C3 TRADE NAMES

Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for.

104 Fixed: _____ Value related: _____ Time related: _____

Item

C4 IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).

105 Fixed: _____ Value related: _____ Time related: _____

Item

C5 VIEWING THE SITE IN SECURITY AREAS

The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes.

106 Fixed: _____ Value related: _____ Time related: _____

Item

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C6 COMMENCEMENT OF WORK IN SECURITY AREAS

As the works fall 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.

107 Fixed: _____ Value related: _____ Time related: _____

Item

C7 ENTRANCE PERMITS TO SECURITY AREAS

As the works fall 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.

108 Fixed: _____ Value related: _____ Time related: _____

Item

C8 SECURITY CHECK OF PERSONNEL

The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or any document or information relating to the works.

109 Fixed: _____ Value related: _____ Time related: _____

Item

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C9 PROHIBITION OF TAKING PHOTOGRAPHS

The contractor shall obtain prior authorisation from the employer for the making of any sketches or the taking of any photographs of any site, installation, building or civil works belonging to the employer and shall ensure that all personnel, subcontractors and other persons entering the site shall comply with this requirement as well.

110 Fixed: _____ Value related: _____ Time related: _____

Item

C10 HIV/AIDS AWARENESS

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under the two items below hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "□Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

C10.1 AWARENESS CHAMPION

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

111 Fixed: _____ Value related: _____ Time related: _____

Item

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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.

112 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.

113 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.

114 Fixed: _____ Value related: _____ Time related: _____

Item

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C10.5 CO-OPERATION OF CONTRACT FOR COST MANAGEMENT

It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors

115 Fixed:_____ Value related:_____ Time related:_____

Item

C10.6 MONITORING

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

116 Fixed:_____ Value related:_____ Time related:_____

Item

C11 OCCUPATIONAL HEALTH AND SAFETY ACT

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

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

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

117 Fixed: _____ Value related: _____ Time related: _____

Item

C11.1 OCCUPATIONAL HEALTH AND SAFETY MEASURES IN WORKPLACES COVID-19 (C19 OHS)

The contractor shall comply with all the requirements set out in the COVID-19 Health and Safety Baseline Specification as contained within these tender documents and 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020.

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The contractor must take note that compliance with the COVID-19 Health and Safety Baseline Specification as contained within these tender documents and 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020 is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the COVID-19 Health and Safety Baseline Specification and Occupational Health and Safety Act in particular Hazardous Biological Agents Regulations governing workplaces in relation to Corona virus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020 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.

118 Fixed:_____ Value related:_____ Time related:_____

Item

C12 REPORTING BY CONTRACTOR

The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided.

119 Fixed:_____ Value related:_____ Time related:_____

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C13 LOCAL LABOUR AND BUILDING MATERIALS**C13.1 GENERAL**

Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent.

It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.

120 Fixed: _____ Value related: _____ Time related: _____

Item

C13.2 LOCAL BUILDING MATERIALS

Preference shall be given to the supply of materials produced or manufactured in the North West Province provided that:

- a) Such materials comply in all respects with the specific requirements of PW371 specification
- b) The availability of such materials shall not adversely affect the desired progress of the specific works
- c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 1</u>			
	<u>DEMOLITIONS</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371b			
	<u>REMOVAL OF EXISTING WORK:</u>			
	NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.			
	DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.			
	PIPES, ETC Special care is to be taken not to interfere unnecessarily with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.			
	PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must			
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make good at his own expense any damage that may occur.

OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.

MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.

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REPAIRS AND RENOVATIONS

GENERAL**Safety Guide to Asbestos Removal**

Note : The tenderers is drawn to all rules health and Safety rules for managing and disposing of Asbestos. The contractor undertaking to remove asbestos should be a fully licensed asbestos removal specialist to remove the toxic waste safely.

The basic requirements for asbestos removal protection, includes the wearing of a dust mask and a disposable overall.

In taking down and removing existing work, the utmost care is to be taken to avoid any structural or other damage to the remaining portions of the building. Supply and erect suitable and substantial shoring, needling, strutting, barricading, etc., that may be necessary whilst carrying out any portion of the alterations to ensure the stability of the premises during alterations, all to the satisfaction of the architect, and remove when directed. The contractor must also protect all work not removed such as walls, floors, doors, windows, joinery, loose and fixed fittings, electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing.

TEMPORARY BARRIERS, SCREENS, ETC**Temporary barriers, screens, etc including removal**

- | | | | |
|---|---|---|-----|
| 1 | Dust screen 3000mm high formed of suitable timber framing with 375 micron polyethylene sheeting stapled on including corners, ends, etc | m | 450 |
|---|---|---|-----|

DEMOLITIONS, ETC.

- | | | | |
|---|---|----|---|
| 2 | Carefully disconnect electrical installation and electrical fittings, under the supervision of a qualified electrician and in consultation with the Electrical Engineer to four classroom block | No | 4 |
|---|---|----|---|

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REPAIRS AND RENOVATIONS

REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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3	Break down and demolish existing building size approximately 31 500mm long x 10 000mm wide x 3 330mm high with two gable ends, incl. cutting the foundation wall, strip footings, windows, roof covering, etc, removal of surface beds, backfilling, cart away etc. of all rubble and leaving no visible sign of the building (4 Classroom block)	No	1		
4	Break down and demolish existing building size approximately 31 500mm long x 10 000mm wide x 3 660mm high with two gable ends, incl. cutting the foundation wall, strip footings, windows, roof covering, etc, removal of surface beds, backfilling, cart away etc. of all rubble and leaving no visible sign of the building (4 Classroom block)	No	1		
5	Break down and demolish existing building size approximately 43 200mm long x 10 000mm wide x 3 460mm high with two gable ends, incl. cutting the foundation wall, strip footings, windows, roof covering, etc, removal of surface beds, backfilling, cart away etc. of all rubble and leaving no visible sign of the building (4 Classroom block + office)	No	2		
6	100mm thick concrete slab including carting away rubble	m2	536		
7	Shadenet carports size 20 000 x 10 000mm wide including concrete bases, cart away, etc	No	1		
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REPAIRS AND RENOVATIONS

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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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REPAIRS AND RENOVATIONS

The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

- | | | | |
|---|---|---|-----|
| 1 | Dust screen 3000mm high formed of suitable timber framing with 375 micron polyethylene sheeting stapled on including corners, ends, etc | m | 230 |
|---|---|---|-----|

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

- | | | | |
|---|----------------------------|----|-----|
| 2 | 85mm Thick concrete paving | m2 | 120 |
|---|----------------------------|----|-----|

Breaking down and removing brickwork etc

- | | | | |
|---|-----------------|----|----|
| 3 | Half brick wall | m2 | 8 |
| 4 | One brick wall | m2 | 35 |

Taking out and removing doors, windows, etc from brickwork to be demolished

- | | | | |
|---|--|----|----|
| 5 | Timber single door not exceeding 2,5m2 | No | 13 |
|---|--|----|----|

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REPAIRS AND RENOVATIONS

	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u>				
6	French door size 1 480 x 2 200mm high from brick walls	No	2		
	<u>Taking out/off and removing glass and mirrors</u>				
7	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	26		
8	450 x 600mm mirror	No	2		
	<u>Sealing of existing roof</u>				
9	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes,solder, replace defective screws using longer screws where necessary "Labour Intensive"	m2	276		
	<u>REPAIR AND SERVICING OF EXISTING</u>				
	<u>Repair and servicing of existing doors</u>				
10	Inspect and service steel door frames 813 x 2032 mm high including replacing striking plates and leave in good working order.	No	16		
	<u>Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles ,rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)</u>				
11	Window size 1022 x 554mm high	No	2		
12	Window size 1 022 x 954mm high	No	2		
13	Window size 1 022 x 1 245mm high	No	22		
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Repair and servicing of existing steel screens and gates

14	Steel screen size 900 x 2 022mm high bolted to brickwork and making good face brickwork	No	1
15	Steel screen size 2 030 x 2 022mm high bolted to brickwork and making good face brickwork	No	1
16	Steel screen size 3 830 x 2 022mm high bolted to brickwork and making good face brickwork	No	1
17	Inspect and service strong room door including sanding down, replacing lock, door stop, etc leave in good working order	No	1

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

18	Ridge capping from steel roof	m	29
19	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	264

Taking out and removing sundry joinery work, fittings, etc

20	Timber cornice	m	276
21	Fascia board	m	124

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc

22	30mm cement screed from floors	m2	264
23	Internal plaster from walls	m2	15

Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes

24	Vinyl tiles from floors	m2	264
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Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)

25	Gutters and down pipes including brackets	m	121
26	Single bowl sink	No	1
27	Vitreous china wash hand basin	No	2
28	Vitreous china WC pan with cistern	No	2
29	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	2

CUTTING THROUGH FLOORS AND CEILINGS

30	Cutting through ceiling for half brick wall including making good both sides	m	34
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Sundries

31	Cutting toothings and bonding new brickwork to existing	m2	11
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FACE BRICKWORK

Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.

32	Extra over brickwork for face brickwork in patches	m2	16
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CLEANING OF EXISTING SURFACES

33	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	238
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MAKING GOOD OF FINISHES ETC

Making good brickwork

34	Making good brickwork at end of one brick wall	m	6
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REPAIRS AND RENOVATIONS

Making good internal cement plaster

35	Walls in patches	m2	80
36	Floors where half brick walls removed	m	3
37	Floors where one brick walls removed	m	10
38	Walls where half brick walls removed	m	6
39	Walls where one brick walls removed	m	6

OPENINGS THROUGH EXISTING WALLS ETC

Breaking out for and forming openings through brick walls for new doors and frames including necessary precast concrete lintels and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with 230mm concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)

40	Opening for window size 533 x 654mm high overall through one brick wall	No	1
41	Opening for window size 1 000 x 654mm high overall through one brick wall	No	3

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Alterations

REPAIRS AND RENOVATIONS

Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	85
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	9
---	-----------	----	---

3	Hard rock	m3	4
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Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	20
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	207
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Earthworks (Provisional)
REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7 Backfilling to trenches, holes, etc m3 75

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8 Under floors, steps, pavings, etc m3 30

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9 Under floors, steps, pavings, etc m3 30

Coarse river sand filling supplied by the contractor

10 Under floors etc m3 4

Compaction of surfaces

11 Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density m2 69

Prescribed density tests on filling

12 "Modified AASHTO Density" test No 15

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13 Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming m2 78

14 To bottoms and sides of trenches, etc m2 217

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Earthworks (Provisional)
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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	3
---	----------	----	---

25 MPa Concrete in:

2	Aprons	m3	9
---	--------	----	---

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	92
---	---	---	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	3
---	-------	----	---

5	Footings	m3	14
---	----------	----	----

6	Surface beds	m3	8
---	--------------	----	---

7	Steps, urinal steps, cupboard platforms, etc	m3	1
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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

- 8 Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)

No 15

MOVEMENT JOINTS, ETC

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

- 9 10mm Joints exceeding 300mm high

m2 91

Saw cut joints

- 10 4 x 30mm Saw cuts in top of concrete

m 25

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

- 11 Ramps, etc

m2 8

- 12 Aprons, etc

m2 92

REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

- 13 10mm Diameter bars

t 1.00

High tensile steel reinforcement to structural concrete work

- 14 12mm Diameter bars

t 1.00

- 15 16mm Diameter bars

t 1.00

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Fabric reinforcement

16	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	60
17	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	40

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

1	Half brick walls	m2	51
2	One brick walls	m2	45

SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

3	Piers	m3	1
4	Half brick walls	m2	66
5	One brick walls	m2	162

BRICKWORK SUNDRIES

Brickwork reinforcement

6	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	364
7	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	769

Concrete prestressed fabricated lintels

8	115 x 75mm Lintels in lengths not exceeding 3m	m	9
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Turning pieces

9	165mm Wide turning piece to lintels etc	m	6
10	230mm Wide turning piece to lintels etc	m	8

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Masonry

REPAIRS AND RENOVATIONS

	<u>Joint forming material in movement joints</u>				
11	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	6		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
12	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	24		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.</u>				
13	Extra over brickwork for face brickwork	m2	78		
14	Extra over brickwork for face brickwork in foundation	m2	50		
15	Extra over brickwork for face brickwork in pier	m2	3		
16	Half brickwall in beamfilling pointed one side	m2	8		
17	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5		
18	Fair raking cutting	m	14		
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
19	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	17		
20	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	9		
21	Coping on top of one brick wall	m	8		
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JOINT SEALANTS, ETC

Two-part grey poly sulphide sealing compound applied with a caulking gun, including backing cord, bond breaker, primer, etc

3	3 x 30mm In saw cut joints in floors	m	25
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	91

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Waterproofing
REPAIRS AND RENOVATIONS

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PROFILED METAL SHEETING AND ACCESSORIES

0,6mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	82
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	33
4	Valley gutter 462mm girth four times bend	m	8

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 Roof Coverings, etc
REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Carpentry and Joinery
REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum pasteboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

1 Administration block approximately 60m² measured flat

Item

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

Sawn softwood

- | | | | |
|---|--|---|-----|
| 2 | 38 x 114mm timber support to existing trusses
(Provisional) | m | 120 |
|---|--|---|-----|

FASCIAS AND BARGE BOARDS**Nutec board or equal approved**

- | | | | |
|---|---|---|----|
| 3 | 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends | m | 98 |
|---|---|---|----|

Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|----|
| 4 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 33 |
|---|---|---|----|

SKIRTINGS**Wrought meranti**

- | | | | |
|---|---|---|-----|
| 5 | 19 x 76mm high skirting with and including Mm quarter round nailed to walls | m | 226 |
|---|---|---|-----|

DOORS**NOTE:**

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

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REPAIRS AND RENOVATIONS

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

6	44mm Door 813 x 2032mm high	No	19
---	-----------------------------	----	----

7	44mm Door 1 500 x 2 032mm high	No	1
---	--------------------------------	----	---

Door grills, etc

Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)

8	300 x 300mm aluminium louvre	No	2
---	------------------------------	----	---

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REPAIRS AND RENOVATIONS

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NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, branderling spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 303 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 3 |

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

- | | | | |
|---|--|----|----|
| 4 | Ceilings on 38 x 38mm branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 88 |
|---|--|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 274 |
|---|--------------------------------|---|-----|

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Bill No. 8

Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 9</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns			
	<u>FLOOR COVERINGS</u>			
	<u>2,5mm Semi-flexible vinyl floor tiles laid in two colour pattern on cement screed (elsewhere)</u>			
1	On floors	m2	226	
	<u>2.5mm fully flexible vinyl floor sheeting manufactured in accordance with SANS 786</u>			
2	On floors	m2	50	
	<u>POLISH, SEALERS, ETC</u>			
	<u>Sweep, clean with detergent complying with SABS 825, rinse and apply three coats of water emulsion polish complying with SABS 1042, including buffing after application of each coat of polish</u>			
3	On vinyl flooring	m2	266	
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	Floor Coverings, Wall linings, etc			
	REPAIRS AND RENOVATIONS			

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SUNDRIES
"Solid" or equal approved

5	19mm Diameter chromium plated towel rail 600mm long incl. end brackets	No	2
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DOOR CLOSERS AND FLOOR SPRINGS
Yale or equal approved

6	Y202RC or equal approved heavy duty door closer with cover fixed to metal	No	4
---	---	----	---

PUSH PLATES AND KICK PLATES
Stainless steel or equal approved

7	Stainless steel kick plates 300 x 813 plate	No	8
---	---	----	---

SUNDRIES
Dorma or equal approved

8	Stainless steel door stop type DDSS-SS-017 plugged	No	22
---	--	----	----

Supply and fit the following window ironmongery sundries

Brass or equal approved

9	Window handles	No	27
10	Peg stays	No	18
11	Sliding stays	No	18

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Bill No. 10
Ironmongery
REPAIRS AND RENOVATIONS

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

12	3mm Thick x 32mm wide plate with letters "STAFF ROOM"	No	1
13	3mm Thick x 32mm wide plate with letters "KITCHEN"	No	1
14	3mm Thick x 32mm wide plate with letters "PASTORAL CARE ROOM"	No	1
15	3mm Thick x 32mm wide plate with letters "STOCK/STORE ROOM"	No	1
16	3mm Thick x 32mm wide plate with letters "PRINT ROOM"	No	1
17	3mm Thick x 32mm wide plate with letters "KITCHEN"	No	1
18	3mm Thick x 32mm wide plate with letters "RECEPTION GENERAL OFFICE"	No	1
19	3mm Thick x 32mm wide plate with letters "STRONG ROOM"	No	1
20	3mm Thick x 32mm wide plate with letters "PRINCIPAL"	No	1
21	3mm Thick x 32mm wide plate with letters "DEPUTY PRINCIPAL 1"	No	1
22	3mm Thick x 32mm wide plate with letters "DEPUTY PRINCIPAL 2"	No	1
23	3mm Thick x 32mm wide plate with letters "SICK ROOM 1"	No	1
24	3mm Thick x 32mm wide plate with letters "SICK ROOM 2"	No	1

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REPAIRS AND RENOVATIONS

LETTERS, NAMEPLATES, ETC**"Union" or equal approved**

25	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	1
26	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	1
27	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	1
28	150 x 150mm Stainless steel plate engraved with "Tea" sign (St/Steel)	No	1
29	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	2
30	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1

PELMETS AND CURTAIN TRACKS

Blinds, with 25 x 0.21mm thick slats including 25 x 25mm high aluminium powder coated top and bottom tracks with stainless steel separator pins, cordlock and roller pins, blinds to be fitted inside reveal to lintel

31	Blinds for window size 1 022 x 954mm high	No	9
32	Blinds for window size 1 022 x 1 245mm high	No	18

BATHROOM FITTINGS**Frank or equal approved**

33	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	1
34	750 long x 80mm Projecting stainless steel straight grab rail fixed in position	No	1

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35	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	1		
36	303 x 156 x141mm high Surface mounted stainless steel vandal and theft free toilet roll holder	No	4		
37	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	3		
38	304 x 100 x 134mm high Manually operated surface mounted stainless steel vandal and theft free soap dispenser with spindle system	No	3		
39	300 x 305 x 134mm high Manually operated surface mounted stainless steel vandal and theft free paper towel dispenser	No	3		
40	900 x 125mm Polished double towel rail fitted as per manufacturer's instructions	No	1		
41	203mm Diameter polished stainless steel towel ring fitted as per manufacturer's instructions	No	3		
<u>SUNDRIES</u>					
42	Stainless steel hat and coat hook with rubber buffer	No	4		
<u>MATS</u>					
<u>Squeegee or equal approved</u>					
43	1 060 x 2 235 x 17mm thick floor dust trap mat glued onto screed in and including mat surround fixed with 25 x 25mm aluminium angle plugged to concrete.	No	1		
44	1 582 x 2 235 x 17mm thick floor dust trap mat glued onto screed in and including mat surround fixed with 25 x 25mm aluminium angle plugged to concrete.	No	1		
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STEEL CUPBOARDS**Approved steel lockers with standard baked enamel finish**

- | | | | |
|----|---|----|---|
| 45 | Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves | No | 6 |
|----|---|----|---|

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC**Carpet pinning boards comprising aluminium frame, pen tray and fixing components included with round plastic corners installed according to manufacturer's details.****"Vitrex" or equal approved**

- | | | | |
|----|--|----|---|
| 46 | Parrot Bulletin board aluminium frame or similar approved 2400x1200mm Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000. | No | 5 |
|----|--|----|---|

- | | | | |
|----|--|----|---|
| 47 | Parrot Bulletin board aluminium frame or similar approved 1500x1200mm Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000. | No | 2 |
|----|--|----|---|

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Bill No. 11

Metalwork

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Bill No. 11

Metalwork

REPAIRS AND RENOVATIONS

INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	259
5	On narrow widths	m2	3

CORNER PROTECTORS, DIVIDING STRIPS, ETC.

6	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	22
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Plastering
REPAIRS AND RENOVATIONS

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

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

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL**GUTTERS, DOWNPIPES, ETC.**

Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled rivets, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	70
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	14
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	8

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	90
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	14
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	14
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	20
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	27
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	24
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	22
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	10
12	Hard rock	m3	5
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	50
14	110mm Pipes laid in trenches (trenches elsewhere)	m	55
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	8
16	110mm Junction	No	6
17	110mm Access bend	No	6
18	110mm Access junction	No	6

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Plumbing and Drainage (Provisional)
REPAIRS AND RENOVATIONS

	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	2		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>Franke or equal approved</u>				
21	1200 x 500mm wide Double bowl soft edge stainless steel inset sink with basket strainer waste fittings. All items to be fully fitted with all necessary plumbing accessories.	No	1		
	<u>Daisy or equal approved</u>				
22	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat	No	4		
23	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	1		
24	610 x 460mm Wall mounted paraplegic WHB with single or double holes. All items to be fully fitted with all necessary plumbing accessories	No	1		
25	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	6		
26	Wall urinal size 600 x 385 x 380mm with spreader and waste union (flush valve elsewhere)	No	2		
	<u>WASTE UNIONS, ETC</u>				
27	32mm Basin waste union	No	7		
28	38mm Bath or sink waste union	No	1		
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	REPAIRS AND RENOVATIONS				

29	38mm Domical grating urinal waste union	No	2
<u>TRAPS ETC</u>			
30	40mm Flexi butyl rubber trap with reseal "P" trap	No	7
31	40mm Flexi butyl rubber combination trap with reseal "P" trap	No	1
<u>TAPS, VALVES, ETC</u>			
<u>Cobra Watertech or equal approved</u>			
32	32mm Chromium plated exposed type urinal flush valve including flush pipe	No	2
33	Chrome plated sink mixer with aerated swivel outlet mounted on the sink. All items to be fully fitted with all necessary plumbing accessories.	No	1
34	Chrome plated basin mixer with aerated swivel outlet mounted on the sink. All items to be fully fitted with all necessary plumbing accessories.	No	7
35	15 x 350mm CP flexible connector	No	4
36	20mm Full way stop cock	No	1
<u>SANITARY PLUMBING</u>			
<u>HDPE pipes</u>			
37	50mm Pipes	m	35
38	50mm Pipes chased into brick walls	m	30
39	110mm Pipes	m	26
<u>Extra over HDPE pipes for fittings</u>			
40	50mm Bend	No	14
41	50mm Access bend	No	7

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REPAIRS AND RENOVATIONS

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<u>Copper flexible service pipes</u>			
59	15mm Service pipe 340mm girth	No	1
<u>Testing</u>			
60	Testing water pipe system		Item
<u>Sundries</u>			
61	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	1
<u>SLEEVES</u>			
<u>HDPE sleeves for pipes not exceeding 100mm diameter</u>			
62	Sleeve not exceeding 250mm long	No	1
<u>HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>			
63	Sleeve not exceeding 250mm long	No	1
<u>HOLES ETC</u>			
<u>Core drilling of hole for pipe not exceeding 100mm and not exceeding 150mm diameter</u>			
64	200mm Reinforced concrete slab, beam, wall, etc	No	1
<u>Core drilling of hole for pipe not exceeding 150mm and not exceeding 300mm diameter</u>			
65	200mm Reinforced concrete slab, beam, wall, etc	No	1
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REPAIRS AND RENOVATIONS

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	<u>BILL NO. 15</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² but not ne 0.5m2	m2	18	
	<u>4mm Obscure glass</u>			
2	Panes exceeding 0,1m ² but not ne 0.5m2	m2	2	
	<u>MIRRORS</u>			
	<u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u>			
3	6mm "GG" quality polished glass mirror 600 x 450mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws	No	7	
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	Glazing			
	REPAIRS AND RENOVATIONS			

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PAINTWORK, ETC TO NEW WORK**ON FLOATED PLASTER****Prepare, stop and apply one coat masonry primer and two coats acrylic PVA paint**

5	On internal plastered walls	m2	259
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ON PLASTERBOARD**Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643**

6	On ceilings and cornices	m2	303
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ON FIBRE-CEMENT**Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643**

7	On ceilings and cornices	m2	88
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Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

8	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	103
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9	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	4
---	---	----	---

ON METAL**Prepare and apply two coats bitumen paint**

10	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	35
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Section 3: Administration Block

Bill No. 16

Paintwork

REPAIRS AND RENOVATIONS

	<u>Prepare, stop and one coat water based galvanised iron primer and two coats UV-resistant water</u>		
11	On corrugated roofs (measured on flat)	m2	469
	<u>Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint</u>		
12	On pressed steel door frames	m2	36
13	On windows with burglar bars	m2	28
	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>		
14	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	56
	<u>ON WOOD</u>		
	<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>		
15	On doors	m2	56
	<u>One coat pink wood primer and two coats clear polyurethane varnish</u>		
16	On skirtings, rails, etc. not exceeding 300mm girth	m	226

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Bill No. 16
Paintwork
REPAIRS AND RENOVATIONS

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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

Allow for making good in all trades to existing work where damaged or disturbed or defaced in any way through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	85mm Thick concrete paving	m2	240
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Breaking down and removing brickwork etc

2	Timber single door not exceeding 2,5m2	No	10
---	--	----	----

3	Steel single gate not exceeding 2,5m2 from one brickwall.	No	10
---	---	----	----

Taking out/off and removing sundry metalwork

Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	30
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REPAIRS AND RENOVATIONS

<u>Sealing of existing roof</u>				
5	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary	m2	840	
<u>REPAIR AND SERVICING OF EXISTING</u>				
<u>Repair and servicing of existing doors</u>				
6	Inspect and service timber door 813 x 2032 mm high including sanding down,etc leave in good working order	No	10	
<u>Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles ,rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)</u>				
7	Window size 1 022 x 1 245mm high	No	100	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
8	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	766	
<u>Taking out and removing sundry joinery work, fittings, etc</u>				
9	Timber cornice	m	488	
10	Fascia board	m	230	
<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>				
11	30mm cement screed from floors	m2	766	
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	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
12	Vinyl tiles from floors	m2	610		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
13	Gutters and down pipes including brackets	m	410		
14	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	4		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.</u>				
15	Extra over brickwork for face brickwork in patches	m2	10		
	<u>CLEANING OF EXISTING SURFACES</u>				
16	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	610		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good internal cement plaster</u>				
17	Walls in patches	m2	60		
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Alterations

REPAIRS AND RENOVATIONS

Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	40
---	----------	----	----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	4
---	-----------	----	---

3	Hard rock	m3	2
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	10
---	--	----	----

Risk of collapse of excavations

5	<u>Sides of trench and hole excavations not exceeding 1.5m deep</u>	m2	72
---	--	----	----

Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Earthworks (Provisional)
REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7 Backfilling to trenches, holes, etc m3 24

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8 Under floors, steps, pavings, etc m3 20

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9 Under floors, steps, pavings, etc m3 20

Coarse river sand filling supplied by the contractor

10 Under floors etc m3 2

Compaction of surfaces

11 Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density m2 30

Prescribed density tests on filling

12 "Modified AASHTO Density" test No 16

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13 Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming m2 196

14 To bottoms and sides of trenches, etc m2 144

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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	2
---	----------	----	---

25 MPa Concrete in:

2	Aprons	m3	20
---	--------	----	----

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	208
---	---	---	-----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	2
---	-------	----	---

5	Footings	m3	7
---	----------	----	---

6	Surface beds	m3	40
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TEST BLOCKS

7	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	20
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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

MOVEMENT JOINTS, ETC

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

8	10mm Joints exceeding 300mm high	m2	60
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Saw cut joints

9	4 x 30mm Saw cuts in top of concrete	m	50
---	--------------------------------------	---	----

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

10	Ramps, etc	m2	8
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11	Aprons, etc	m2	200
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REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

12	10mm Diameter bars	t	1.00
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High tensile steel reinforcement to structural concrete work

13	12mm Diameter bars	t	1.00
----	--------------------	---	------

14	16mm Diameter bars	t	1.00
----	--------------------	---	------

Fabric reinforcement

15	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	196
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16	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	28
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)

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

1	One brick walls	m2	60
---	-----------------	----	----

BRICKWORK SUNDRIES

Brickwork reinforcement

2	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	462
---	---	---	-----

FACE BRICKWORK

Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

3	Extra over brickwork for face brickwork in foundation	m2	24
---	---	----	----

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

4	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	8
---	--	---	---

5	Coping on top of one brick wall	m	24
---	---------------------------------	---	----

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Masonry

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JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	60		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	90		

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Waterproofing

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Waterproofing

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Sawn softwood

1 38 x 114mm timber support to existing trusses
(Provisional)

m

80

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Carpentry and Joinery
REPAIRS AND RENOVATIONS

FASCIAS AND BARGE BOARDS**Nutec board or equal approved**

- | | | | |
|---|---|---|-----|
| 2 | 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends | m | 230 |
|---|---|---|-----|

Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|-----|
| 3 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 100 |
|---|---|---|-----|

SKIRTINGS**Wrought meranti**

- | | | | |
|---|---|---|-----|
| 4 | 19 x 76mm Skirtings with and including 19mm quarter round nailed to walls | m | 102 |
|---|---|---|-----|

DOORS**40mm thick horizontal hardwood entrance door suitable for paint on both sides, hung to steel frames and installed in accordance with the manufacturers' recommendations**

- | | | | |
|---|---|----|----|
| 5 | 44mm Single door, size 813 x 2 032mm high | No | 10 |
|---|---|----|----|

Door grills, etc**Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)**

- | | | | |
|---|------------------------------|----|---|
| 6 | 300 x 300mm aluminium louvre | No | 2 |
|---|------------------------------|----|---|

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

INSULATION, ETC

Fibreglass insulation

1	100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brandering, etc, all as per manufacturers instructions	m2	768
---	--	----	-----

NAILED UP CEILINGS

6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster

2	Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, brandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer	m2	610
3	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	10

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

4	Ceilings on 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.	m2	158
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Cornices

5	76mm Gypsum coved trim cornice	m	488
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Ceilings, Partitions and Access Flooring
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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Brass or equal approved

5	Window handles	No	100
6	Peg stays	No	100
7	Sliding stays	No	100

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

8	3mm Thick x 32mm wide plate with letters "CLASSROOM 1"	No	4
9	3mm Thick x 32mm wide plate with letters "CLASSROOM 2"	No	4

"Union" or equal approved

10	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	4
11	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	2

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

12	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	10
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Ironmongery
REPAIRS AND RENOVATIONS

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC****"Vitrex" or equal approved**

13	Pinning boards size 2400 x 1220mm high fixed to brickwork	No	20
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Chalkboards

14	Vitrex system enamelled green type writing chalkboard, with wall mounted centre board high with chalk rail size 1 140 x 1 800mm high plugged	No	20
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Ironmongery

REPAIRS AND RENOVATIONS

R

STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- 1 Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall

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Metalwork

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**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

4	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	10
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Plastering

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	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>RAINWATER DISPOSAL</u>			
	<u>GUTTERS, DOWNPIPES, ETC.</u>			
	<u>Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc</u>			
1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	230	
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	20	
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	8	
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	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² but not ne 0.5m ²	m2	30	
	<u>MIRRORS</u>			
	<u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u>			
2	6mm "GG" quality polished glass mirror size 450 x 600mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws	No	1	
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	Glazing			
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PAINTWORK, ETC TO NEW WORK
ON PLASTERBOARD

**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

4	On ceilings and cornices	m2	610
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ON FIBRE-CEMENT

**Prepare, stop and apply one coat alkali resistant
primer and two full coats acrylic emulsion paint for
exterior use**

5	On ceilings and cornices	m2	158
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**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

6	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	104
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7	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	11
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ON METAL

Prepare and apply two coats bitumen paint

8	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	80
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**Prepare, stop and one coat water based galvanised
iron primer and two coats UV-resistant water**

9	On corrugated roofs (measured on flat)	m2	1,008
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Paintwork
REPAIRS AND RENOVATIONS

	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
10	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	34		
	<u>ON WOOD</u>				
	<u>Prepare and apply three coats varnish</u>				
11	On doors	m2	34		
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Paintwork

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Paintwork

REPAIRS AND RENOVATIONS

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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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REPAIRS AND RENOVATIONS

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The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	85mm Thick concrete paving	m2	120
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Taking out and removing doors, windows, etc from brickwork to be demolished

2	Timber single door not exceeding 2,5m2	No	10
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3	Steel single gate not exceeding 2,5m2	No	10
---	---------------------------------------	----	----

Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	30
---	--	----	----

Sealing of existing roof

5	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary	m2	840
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Alterations

REPAIRS AND RENOVATIONS

REPAIR AND SERVICING OF EXISTING

Repair and servicing of existing doors

6	Inspect and service timber door 813 x 2032 mm high including sanding down,etc leave in good working order	No	10
---	---	----	----

Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles, rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)

7	Window size 1 022 x 1 245mm high	No	100
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

8	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	768
---	--	----	-----

Taking out and removing sundry joinery work, fittings, etc

9	Timber cornice	m	488
---	----------------	---	-----

10	Fascia board	m	230
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Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc

11	30mm cement screed from floors	m2	768
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Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes

12	Vinyl tiles from floors	m2	768
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	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
13	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	4		
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
14	Hacking face of existing face brickwork to receive plaster	m2	10		
	<u>CLEANING OF EXISTING SURFACES</u>				
15	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	600		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good internal cement plaster</u>				
16	Walls in patches	m2	60		
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Alterations

REPAIRS AND RENOVATIONS

Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	40
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	4
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3	Hard rock	m3	2
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	10
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	72
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Earthworks (Provisional)
REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	24
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	20
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	20
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Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	2
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Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	30
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Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	10
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SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	196
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14	To bottoms and sides of trenches, etc	m2	144
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Earthworks (Provisional)

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Earthworks (Provisional)

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	4
2	Aprons	m3	20
3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	208

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	2
5	Footings	m3	7
6	Surface beds	m3	24

TEST BLOCKS

7	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	20
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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

MOVEMENT JOINTS, ETC**Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces**

8	10mm Joints exceeding 300mm high	m2	60
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Saw cut joints

9	4 x 30mm Saw cuts in top of concrete	m	32
---	--------------------------------------	---	----

CONCRETE SUNDRIES**Finishing top surfaces of concrete with wooden float finish**

10	Ramps, etc	m2	8
----	------------	----	---

11	Aprons, etc	m2	208
----	-------------	----	-----

REINFORCEMENT**Fabric reinforcement**

12	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	196
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13	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	28
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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)

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

1	One brick walls	m2	60
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BRICKWORK SUNDRIES

Brickwork reinforcement

2	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	372
---	---	---	-----

FACE BRICKWORK

Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

3	Extra over brickwork for face brickwork in foundation	m2	24
---	---	----	----

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

4	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	8
---	--	---	---

5	Coping on top of one brick wall	m	24
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Masonry
REPAIRS AND RENOVATIONS

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JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	60		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	90		

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Waterproofing

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Waterproofing

REPAIRS AND RENOVATIONS

Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Carpentry and Joinery
REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

R

e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Sawn softwood

1 38 x 114mm timber support to existing trusses
(Provisional)

m

80

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Carpentry and Joinery
REPAIRS AND RENOVATIONS

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

2	10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends	m	229
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Tempered fibre-cement internal window sills

3	150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations	m	100
---	---	---	-----

SKIRTINGS

Wrought meranti

4	19 x 76mm Skirtings with 19mm quarter round nailed to walls	m	102
---	---	---	-----

DOORS

40mm thick horizontal hardwood entrance door suitable for paint on both sides, hung to steel frames and installed in accordance with the manufacturers' recommendations

5	44mm Single door, size 813 x 2 032mm high	No	10
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Door grills, etc

Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)

6	300 x 300mm aluminium louvre	No	2
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Carpentry and Joinery
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Bill No. 6

Carpentry and Joinery

REPAIRS AND RENOVATIONS

INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|---|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of branderling, etc, all as per manufacturers instructions | m2 | 767 |
|---|---|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, branderling spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 609 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 10 |

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

- | | | | |
|---|--|----|-----|
| 4 | Ceilings on 38 x 38mm branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 158 |
|---|--|----|-----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 487 |
|---|--------------------------------|---|-----|

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Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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Ceilings, Partitions and Access Flooring

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Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

Brass or equal approved

5	Window handles	No	100
6	Peg stays	No	100
7	Sliding stays	No	100

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

8	3mm Thick x 32mm wide plate with letters "CLASSROOM 1"	No	4
9	3mm Thick x 32mm wide plate with letters "CLASSROOM 2"	No	4

"Union" or equal approved

10	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	4
11	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	2

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

12	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	10
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Ironmongery
REPAIRS AND RENOVATIONS

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC****"Vitrex" or equal approved****Carpet pinning boards comprising aluminium frame,
pen tray and fixing components included with round
plastic corners installed according to
manufacturer's details.**

13	Pinning boards size 2400 x 1220mm high fixed to brickwork	No	20
----	---	----	----

Chalkboards

14	Vitrex system enamelled green type writing chalkboard, with wall mounted centre board high with chalk rail size 1 140 x 1 800mm high plugged	No	20
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 Ironmongery
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Ironmongery

REPAIRS AND RENOVATIONS

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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- | | | | |
|---|--|----|----|
| 1 | Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall | No | 10 |
|---|--|----|----|

STEEL HANDRAILS, BALUSTRADES, ETC**Welded balustrading**

- | | | | |
|---|---|----|-----|
| 2 | Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters | m | 108 |
| 3 | Extra over for L-intersection of horizontal balustrades | No | 4 |
| 4 | Extra over for flat closed end | No | 4 |
| 5 | 80mm Expansion bolt | No | 64 |

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 Bill No. 10
 Metalwork

REPAIRS AND RENOVATIONS

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**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

4	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	10
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Plastering

REPAIRS AND RENOVATIONS

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	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>RAINWATER DISPOSAL</u>			
	<u>GUTTERS, DOWNPIPES, ETC.</u>			
	<u>Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc</u>			
1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	229	
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	8	
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	8	
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	REPAIRS AND RENOVATIONS			

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

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PAINTWORK, ETC TO NEW WORK**ON PLASTERBOARD**

Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643

4	On ceilings and cornices	m2	609
---	--------------------------	----	-----

ON FIBRE-CEMENT

Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

5	On ceilings and cornices	m2	158
---	--------------------------	----	-----

Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

6	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	103
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7	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	11
---	---	----	----

ON METAL

Prepare, stop and one coat water based galvanised iron primer and two coats UV-resistant water

8	On corrugated roofs (measured on flat)	m2	1,008
---	--	----	-------

Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

9	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	249
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 Section 5: 2 X Classrooms - Block E
 Bill No. 15
 Paintwork
REPAIRS AND RENOVATIONS

ON WOOD**Prepare and apply three coats varnish**

10	On doors	m2	33
----	----------	----	----

One coat pink wood primer and two coats clear polyurethane varnish

11	On skirtings, rails, etc. not exceeding 300mm girth	m	487
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Paintwork

REPAIRS AND RENOVATIONS

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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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REPAIRS AND RENOVATIONS

The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	85mm Thick concrete paving	m2	31
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Taking out and removing doors, windows, etc from brickwork to be demolished

2	Timber single door not exceeding 2,5m2	No	3
---	--	----	---

3	Steel single door not exceeding 2,5m2	No	1
---	---------------------------------------	----	---

Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	8
---	--	----	---

Sealing of existing roof

5	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary	m2	192
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Alterations

REPAIRS AND RENOVATIONS

REPAIR AND SERVICING OF EXISTING

Repair and servicing of existing doors

6	Inspect and service timber door 813 x 2032 mm high including sanding down,etc leave in good working order	No	3
---	---	----	---

Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles, rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)

7	Window size 1022 x 554mm high	No	15
8	Window size 1 022 x 954mm high	No	15
9	Window size 1 022 x 1 245mm high	No	15

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

10	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	134
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Taking out and removing sundry joinery work, fittings, etc

11	Timber cornice	m	127
12	Fascia board	m	56

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc

13	30mm cement screed from floors	m2	134
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REPAIRS AND RENOVATIONS

	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
14	Vinyl tiles from floors	m2	108		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
15	Gutters and down pipes including brackets	m	68		
16	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	2		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.</u>				
17	Extra over brickwork for face brickwork in patches	m2	8		
	<u>CLEANING OF EXISTING SURFACES</u>				
18	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	160		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good internal cement plaster</u>				
19	Walls in patches	m2	30		
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Alterations

REPAIRS AND RENOVATIONS

Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	25
---	----------	----	----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	3
---	-----------	----	---

3	Hard rock	m3	1
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	72
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Earthworks (Provisional)
REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	14
---	-------------------------------------	----	----

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	20
---	-----------------------------------	----	----

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	20
---	-----------------------------------	----	----

Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	4
----	------------------	----	---

Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	25
----	---	----	----

Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	8
----	--------------------------------	----	---

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	68
----	--	----	----

14	To bottoms and sides of trenches, etc	m2	84
----	---------------------------------------	----	----

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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	1
<u>25 MPa Concrete in:</u>			
2	Aprons	m3	5
3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	50

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	2
5	Footings	m3	3
6	Surface beds	m3	7

TEST BLOCKS

7	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	15
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Section 6: Computer Laboratory

Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

MOVEMENT JOINTS, ETC**Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces**

8	10mm Joints exceeding 300mm high	m2	8
---	----------------------------------	----	---

Saw cut joints

9	4 x 30mm Saw cuts in top of concrete	m	34
---	--------------------------------------	---	----

CONCRETE SUNDRIES**Finishing top surfaces of concrete with wooden float finish**

10	Ramps, etc	m2	4
----	------------	----	---

11	Aprons, etc	m2	68
----	-------------	----	----

REINFORCEMENT**Mild tensile steel reinforcement to structural concrete work**

12	10mm Diameter bars	t	1.00
----	--------------------	---	------

High tensile steel reinforcement to structural concrete work

13	12mm Diameter bars	t	1.00
----	--------------------	---	------

14	16mm Diameter bars	t	1.00
----	--------------------	---	------

Fabric reinforcement

15	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	18
----	--	----	----

16	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	17
----	---	----	----

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

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Concrete, Formwork and Reinforcement

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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

1	One brick walls	m2	30
---	-----------------	----	----

Brickwork reinforcement

2	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	94
---	---	---	----

FACE BRICKWORK

Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

3	Extra over brickwork for face brickwork in foundation	m2	24
---	---	----	----

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

4	Coping on top of one brick wall	m	24
---	---------------------------------	---	----

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Masonry
REPAIRS AND RENOVATIONS

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Masonry

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Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	34
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	12

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Waterproofing
REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Sawn softwood

1	38 x 114mm timber support to existing trusses (Provisional)	m	60
2	50 x 300mm laminated timber (Provisional)	m	40

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Carpentry and Joinery
REPAIRS AND RENOVATIONS

FASCIAS AND BARGE BOARDS**Nutec board or equal approved**

- | | | | |
|---|---|---|----|
| 3 | 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends | m | 56 |
|---|---|---|----|

Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|----|
| 4 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 15 |
|---|---|---|----|

SKIRTINGS**Wrought meranti**

- | | | | |
|---|---|---|----|
| 5 | 19 x 76mm Skirtings with 19mm quarter round nailed to walls | m | 66 |
|---|---|---|----|

DOORS**40mm thick horizontal hardwood entrance door suitable for paint on both sides, hung to steel frames and installed in accordance with the manufacturers' recommendations**

- | | | | |
|---|---|----|---|
| 6 | 44mm Single door, size 813 x 2 032mm high | No | 1 |
|---|---|----|---|

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

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

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

Door grills, etc**Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)**

8

300 x 300mm aluminium louvre

No

1

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

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INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|--|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brandering, etc, all as per manufacturers instructions | m2 | 150 |
|---|--|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, brandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 124 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 2 |

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

- | | | | |
|---|---|----|----|
| 4 | Ceilings on 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 26 |
|---|---|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|----|
| 5 | 76mm Gypsum coved trim cornice | m | 85 |
|---|--------------------------------|---|----|

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Section 6: Computer Laboratory

Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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SUNDRIES**Dorma or equal approved**

5	Stainless steel door stop type DDSS-SS-017 plugged	No	3
---	--	----	---

Supply and fit the following window ironmongery sundries**Brass or equal approved**

6	Window handles	No	15
---	----------------	----	----

7	Peg stays	No	15
---	-----------	----	----

8	Sliding stays	No	15
---	---------------	----	----

NUMERAL AND NAME PLATES**Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws**

9	3mm Thick x 32mm wide plate with letters "EQUIPMENT STORE"	No	1
---	--	----	---

10	3mm Thick x 32mm wide plate with letters "GENERAL STORE"	No	1
----	--	----	---

11	3mm Thick x 32mm wide plate with letters "COMPUTER LABORATORY"	No	1
----	--	----	---

"Union" or equal approved

12	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	1
----	--	----	---

13	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1
----	---	----	---

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Section 6: Computer Laboratory

Bill No. 9

Ironmongery

REPAIRS AND RENOVATIONS

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

- | | | | |
|----|---|----|---|
| 14 | Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves | No | 2 |
|----|---|----|---|

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

"Vitrex" or equal approved

Carpet pinning boards comprising aluminium frame, pen tray and fixing components included with round plastic corners installed according to manufacturer's details.

- | | | | |
|----|---|----|---|
| 15 | Pinning boards size 2400 x 1220mm high fixed to brickwork | No | 2 |
|----|---|----|---|

Chalkboards

- | | | | |
|----|--|----|---|
| 16 | Vitrex system enamelled green type writing chalkboard, with wall mounted centre board high with chalk rail size 1 140 x 1 800mm high plugged | No | 2 |
|----|--|----|---|

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Ironmongery

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Ironmongery

REPAIRS AND RENOVATIONS

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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- 1 Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall

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Bill No. 10

Metalwork

REPAIRS AND RENOVATIONS

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

- 4 40mm High brass or aluminium transition strip built into
screed between different floor finishes

m

2

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REPAIRS AND RENOVATIONS

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Plastering

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	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>RAINWATER DISPOSAL</u>			
	<u>GUTTERS, DOWNPIPES, ETC.</u>			
	<u>Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc</u>			
1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	32	
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	8	
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	4	
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	Plumbing and Drainage (Provisional)			
	REPAIRS AND RENOVATIONS			

REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	36		
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	8		
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	8		
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Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

PAINTWORK, ETC TO NEW WORK**ON PLASTERBOARD**

Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643

4	On ceilings and cornices	m2	124
---	--------------------------	----	-----

ON FIBRE-CEMENT

Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

5	On ceilings and cornices	m2	26
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Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

6	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	25
---	--	----	----

7	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	2
---	---	----	---

ON METAL

Prepare and apply one coats rustproof undercoat paint

8	On doors	m2	11
---	----------	----	----

Prepare, stop and one coat water based galvanised iron primer and two coats UV-resistant water

9	On corrugated roofs (measured on flat)	m2	192
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 Paintwork
REPAIRS AND RENOVATIONS

	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
10	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	4		
	<u>ON WOOD</u>				
	<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>				
11	On doors	m2	7		
	<u>Prepare and apply three coats varnish</u>				
12	On doors	m2	4		
	<u>One coat pink wood primer and two coats clear polyurethane varnish</u>				
13	On skirtings, rails, etc. not exceeding 300mm girth	m	19		
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REPAIRS AND RENOVATIONS					

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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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Alterations

REPAIRS AND RENOVATIONS

The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	85mm Thick concrete paving	m2	76
---	----------------------------	----	----

Breaking down and removing brickwork etc

2	Half brick wall	m2	6
---	-----------------	----	---

Taking out and removing doors, windows, etc from brickwork to be demolished

3	Timber single door not exceeding 2,5m2	No	26
---	--	----	----

Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)

4	Steel gate not exceeding 2,5m2	No	8
---	--------------------------------	----	---

Taking out/off and removing glass and mirrors

5	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	18
---	--	----	----

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Alterations

REPAIRS AND RENOVATIONS

BUILDING UP OPENINGS**Brickwork in NFP bricks in class II mortar in building up openings**

6	One brick walls	m2	23
---	-----------------	----	----

REPAIR AND SERVICING OF EXISTING**Repair and servicing of existing doors**

7	Inspect and service timber door 813 x 2032 mm high including sanding down, etc leave in good working order	No	26
---	--	----	----

Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles, rods, openers, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery, removal of glass, etc else where measured)

8	Window size 533 x 654mm high	No	25
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9	Window size 1 022 x 554mm high	No	6
---	--------------------------------	----	---

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

10	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	132
----	---	----	-----

11	Roof trusses and sheeting from brickwall (measured flat)	m2	160
----	--	----	-----

Taking out and removing sundry joinery work, fittings, etc

12	Timber cornice	m	168
----	----------------	---	-----

13	Fascia board	m	102
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 Alterations

REPAIRS AND RENOVATIONS

	<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>				
14	30mm cement screed from floors	m2	132		
15	Internal plaster from walls	m2	60		
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
16	Ceramic tiles from floors	m2	132		
17	Wall tiles	m2	214		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
18	Gutters and down pipes including brackets	m	167		
19	Vitreous china wash hand basin	No	13		
20	Vitreous china WC pan with cistern	No	20		
21	Urinal	No	2		
22	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	2		
	<u>Brickwork reinforcement</u>				
23	150mm Wide reinforcement built in horizontally	m	66		
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FACE BRICKWORK

Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.

24	Extra over brickwork for face brickwork	m2	23
----	---	----	----

CLEANING OF EXISTING SURFACES

25	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	238
----	--	----	-----

Making good internal cement plaster

26	Walls in patches	m2	30
27	Floors where half brick walls removed	m	2
28	Floors where one brick walls removed	m	3

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Alterations

REPAIRS AND RENOVATIONS

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	25
---	----------	----	----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	3
---	-----------	----	---

3	Hard rock	m3	1
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	21
---	--	----	----

Keeping excavations free of water

5	Keeping excavations free of water		Item
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Section 7: Ablutions

Bill No. 2

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

6	Backfilling to trenches, holes, etc	m3	12
---	-------------------------------------	----	----

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

7	Under floors, steps, pavings, etc	m3	20
---	-----------------------------------	----	----

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	20
---	-----------------------------------	----	----

Coarse river sand filling supplied by the contractor

9	Under floors etc	m3	4
---	------------------	----	---

Compaction of surfaces

10	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	25
----	---	----	----

Prescribed density tests on filling

11	"Modified AASHTO Density" test	No	15
----	--------------------------------	----	----

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

12	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	18
----	--	----	----

13	To bottoms and sides of trenches, etc	m2	9
----	---------------------------------------	----	---

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Bill No. 2

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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Earthworks (Provisional)

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Bill No. 2

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	1
<u>25 MPa Concrete in:</u>			
2	Aprons	m3	7
3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc "Labour Intensive"	m	76

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	7
5	Footings	m3	4

TEST BLOCKS

6	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	15
---	---	----	----

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Section 7: Ablutions

Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

MOVEMENT JOINTS, ETC

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

7 10mm Joints exceeding 300mm high m2 12

Saw cut joints

8 4 x 30mm Saw cuts in top of concrete m 12

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

9 Ramps, etc m2 12

10 Aprons, etc m2 76

REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

11 10mm Diameter bars t 1.00

High tensile steel reinforcement to structural concrete work

12 12mm Diameter bars t 1.00

13 16mm Diameter bars t 1.00

Fabric reinforcement

14 Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net) m2 18

15 Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net) m2 17

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

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Concrete, Formwork and Reinforcement

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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)**Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar**

1	One brick walls	m2	30
---	-----------------	----	----

BRICKWORK SUNDRIES**Brickwork reinforcement**

2	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	94
---	---	---	----

FACE BRICKWORK**Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.**

3	Extra over brickwork for face brickwork in foundation	m2	24
---	---	----	----

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

4	Coping on top of one brick wall	m	24
---	---------------------------------	---	----

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Masonry

REPAIRS AND RENOVATIONS

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Masonry

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Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	12
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	12

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Waterproofing

REPAIRS AND RENOVATIONS

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Waterproofing

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Waterproofing

REPAIRS AND RENOVATIONS

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PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	146
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	35

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 Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Section 7: Ablutions

Bill No. 7

Carpentry and Joinery

REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

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d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

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Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

- | | | |
|---|---|------|
| 1 | Toilet block A approximately 60m ² measured flat | Item |
| 2 | Toilet block B approximately 41m ² measured flat | Item |
| 3 | Toilet block B approximately 33m ² measured flat | Item |

Sawn softwood

- | | | | |
|---|---|---|----|
| 4 | 38 x 114mm timber support to existing trusses (Provisional) | m | 80 |
|---|---|---|----|

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- | | | | |
|---|---|---|-----|
| 5 | 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends | m | 102 |
|---|---|---|-----|

Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|----|
| 6 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 36 |
|---|---|---|----|

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Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|----|
| 7 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 18 |
|---|---|---|----|

DOORS**NOTE:**

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

40mm thick horizontal hardwood entrance door suitable for paint on both sides, hung to steel frames and installed in accordance with the manufacturers' recommendations

- | | | | |
|---|---|----|---|
| 8 | 44mm Single door, size 813 x 2 032mm high | No | 6 |
| 9 | 44mm Single door, size 950 x 2 032mm high | No | 3 |

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

- | | | | |
|----|-----------------------------|----|----|
| 10 | 44mm Door 813 x 2032mm high | No | 17 |
|----|-----------------------------|----|----|

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REPAIRS AND RENOVATIONS

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished
smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood bandering at 400mm centres in one direction and around edges where required for fixing cornices, bandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 132 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 4 |

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 4 | 76mm Gypsum coved trim cornice | m | 171 |
|---|--------------------------------|---|-----|

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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	<u>SECTION NO. 7</u>				
	<u>BILL NO. 9</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
	<u>CATCHES,CABIN HOOKS, ETC</u>				
	<u>"Solid" or equal approved</u>				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	8		
	<u>LOCKS</u>				
	<u>"Solid" or equal approved</u>				
2	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	17		
3	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	8		
	<u>"Cisa" or equal approved</u>				
4	CISA solid hardened steel padlock (Code: 28056-55-KD) with a C2000 5 pin keying system with a 55mm body size and supplied keyed different.	No	8		
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	REPAIRS AND RENOVATIONS				

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DOOR CLOSERS AND FLOOR SPRINGS**Yale or equal approved**

- | | | | |
|---|---|----|---|
| 5 | Y202RC or equal approved heavy duty door closer with cover fixed to metal | No | 8 |
|---|---|----|---|

SUNDRIES**Dorma or equal approved**

- | | | | |
|---|--|----|----|
| 6 | Stainless steel door stop type DDSS-SS-017 plugged | No | 25 |
|---|--|----|----|

Supply and fit the following window ironmongery sundries

Brass or equal approved

- | | | | |
|---|----------------|----|----|
| 7 | Window handles | No | 31 |
| 8 | Peg stays | No | 31 |

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

- | | | | |
|----|---|----|---|
| 9 | 3mm Thick x 32mm wide plate with letters "MALE LEARNERS ABLUTION BLOCK" | No | 1 |
| 10 | 3mm Thick x 32mm wide plate with letters "FEMALE LEARNERS ABLUTION BLOCK" | No | 1 |

LETTERS, NAMEPLATES, ETC**"Union" or equal approved**

- | | | | |
|----|---|----|---|
| 11 | "Code AL5022-E10" Natural anodised aluminium plate with male symbol | No | 4 |
|----|---|----|---|

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12	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	8		
13	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	4		
<u>BATHROOM FITTINGS</u>					
<u>Frank or equal approved</u>					
14	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	3		
15	750 long x 80mm Projecting stainless steel straight grab rail fixed in position	No	3		
16	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	3		
17	303 x 156 x141mm high Surface mounted stainless steel vandal and theft free toilet roll holder	No	19		
18	145 x 75mm Surface mounted polished stainless steel toilet roll holder plugged	No	6		
19	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	6		
20	900 x 125mm Polished double towel rail fitted as per manufacturer's instructions	No	4		
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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- | | | | |
|---|--|----|---|
| 1 | Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall | No | 8 |
|---|--|----|---|

STEEL HANDRAILS, BALUSTRADES, ETC**Welded balustrading**

- | | | | |
|---|---|----|----|
| 2 | Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters | m | 80 |
| 3 | Extra over for L-intersection of horizontal balustrades | No | 6 |
| 4 | Extra over for flat closed end | No | 8 |
| 5 | 80mm Expansion bolt | No | 16 |

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 Metalwork

REPAIRS AND RENOVATIONS

PRESSED STEEL DOOR FRAMES

**Double rebated pressed frames suitable for half
brick walls with two Union 8432-100SB ball bearing
butt hinges with satin brass finish per leaf**

6 Frame for door size, 813 x 2 032mm high

No

1

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Metalwork

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL**GUTTERS, DOWNPIPES, ETC.**

Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled rivets, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	68
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	22
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	12

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4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	99
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	22
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	22
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	60
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	40
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	60
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	60
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	6
12	Hard rock	m3	3
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	60
14	110mm Pipes laid in trenches (trenches elsewhere)	m	40
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	12
16	110mm Junction	No	12
17	110mm Access bend	No	12
18	110mm Access junction	No	12

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	<u>HDPE gulleys</u>		
19	110mm Gulley not exceeding 750mm deep	No	6
	<u>Sundries</u>		
20	Testing soil drainage system		Item
	<u>SANITARY FITTINGS</u>		
	<u>"Vaal" or equal approved</u>		
21	Low level WC suite comprising WC pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	17
22	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	3
23	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	18
24	610 x 460mm Wall mounted paraplegic WHB with single or double holes. All items to be fully fitted with all necessary plumbing accessories	No	3
25	610 x 385mm Washdown wall hung urinal fully installed and supplied with all necessary accessories	No	6
	<u>WASTE UNIONS, ETC</u>		
26	32mm Basin waste union	No	14
	<u>TAPS, VALVES, ETC</u>		
	<u>Cobra or equal approved</u>		
27	"Cobra Ref. 111-15" or equal approved star basin tap	No	14
28	20mm Full way stop cock	No	39
29	15 x 350mm CP flexible connector	No	21
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30	Cobra Watertech exposed urinal chrome plated Junior Flushmaster flushvalve (code: FJ6.000) with non-hold open feature, wall flange and 20mm "Ball-o-Stop" control inlet.	No	6		
<u>SANITARY PLUMBING</u>					
<u>HDPE pipes</u>					
31	50mm Pipes	m	80		
32	50mm Pipes chased into brick walls	m	60		
33	110mm Pipes	m	30		
<u>Extra over HDPE pipes for fittings</u>					
34	50mm Bend	No	36		
35	50mm Access bend	No	21		
36	50mm Junction	No	21		
37	50mm Access junction	No	21		
38	110mm Bend	No	28		
39	110mm Access bend	No	19		
40	110mm Socket	No	19		
41	110mm Junction	No	19		
42	110mm Reducing junction	No	19		
43	110mm Access junction	No	19		
44	110mm Two-way vent valve	No	19		
45	110mm Pan connector	No	19		
<u>Testing</u>					
46	Testing sewer pipe system		Item		
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WATER SUPPLIES
Class "O" copper pipes:

47	15mm Pipes chased in brickwork	m	85
48	22mm Pipes chased in brickwork	m	50
49	28mm Pipes	m	40

Extra over class "O" copper pipes for capillary fittings

50	15mm Fittings	No	25
51	22mm Fittings	No	25
52	28mm Fittings	No	20

Copper flexible service pipes

53	15mm Service pipe 340mm girth	No	15
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Testing

54	Testing water pipe system	Item	
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Sundries

55	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	3
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SLEEVES
HDPE sleeves for pipes not exceeding 100mm diameter

56	Sleeve not exceeding 250mm long	No	3
----	---------------------------------	----	---

HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter

57	Sleeve not exceeding 250mm long	No	3
----	---------------------------------	----	---

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HOLES ETC

**Core drilling of hole for pipe not exceeding 100mm
and not exceeding 150mm diameter**

58	200mm Reinforced concrete slab, beam, wall, etc	No	1
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	<u>SECTION NO. 7</u>			
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² but not ne 0.5m2	m2	10	
	<u>4mm Obscure glass</u>			
2	Panes exceeding 0,1m ² but not ne 0.5m2	m2	12	
	<u>MIRRORS</u>			
	<u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u>			
3	6mm "GG" quality polished glass mirror 600 x 450mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws	No	14	
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	Glazing			
	REPAIRS AND RENOVATIONS			

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ON FIBRE-CEMENT**Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use**

- | | | | |
|---|--|----|----|
| 5 | On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer | m2 | 52 |
| 6 | On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer | m2 | 4 |

ON METAL**Prepare and apply two coats bitumen paint**

- | | | | |
|---|---|----|----|
| 7 | On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing | m2 | 24 |
|---|---|----|----|

Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

- | | | | |
|---|--|----|-----|
| 8 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 187 |
|---|--|----|-----|

ON WOOD**Prepare, stop and apply one coat wood primer and two coats PVA paint**

- | | | | |
|---|----------|----|----|
| 9 | On doors | m2 | 60 |
|---|----------|----|----|

Prepare and apply three coats varnish

- | | | | |
|----|----------|----|----|
| 10 | On doors | m2 | 27 |
|----|----------|----|----|

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	<u>SECTION NO. 8</u>			
	<u>BILL NO. 1</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	<u>Note:</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
3.	The tenderer is advised to thoroughly inspect the existing building as required in item 59 of section 1 - Preliminaries (Clause B3.11) to fully familiarise himself with the items described herein, and any associated works that will reasonably be required to execute the works described herein, before pricing this bill. The tenderers prices will be deemed to include for any such associated work.			
4.	Should any ambiguity or query arise in this regard, the tenderer shall clarify same with the architect before submitting his tender, failing which he will be deemed to have made adequate provision in his prices.			
	<u>Note:</u>			
	All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.			
	Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.			
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"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

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Bill No. 1

Alterations

REPAIRS AND RENOVATIONS

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	Half brick wall	m2	6
---	-----------------	----	---

Taking out and removing doors, windows, etc from brickwork to be demolished

2	Timber single door not exceeding 2,5m2	No	5
---	--	----	---

Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)

3	Timber double door exceeding 2.5m2 and not exceeding 5m2	No	2
---	--	----	---

Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	10
---	--	----	----

Sealing of existing roof

5	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary	m2	214
---	---	----	-----

BUILDING UP OPENINGS

Brickwork in NFP bricks in class II mortar in building up openings

6	Cutting toothing and bonding new brickwork to existing for one brick wall	m	9
---	---	---	---

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Alterations

REPAIRS AND RENOVATIONS

REPAIR AND SERVICING OF EXISTING
Repair and servicing of existing doors

- | | | | |
|---|--|----|----|
| 7 | Inspect and service timber door 813 x 2032 mm high including sanding down, etc leave in good working order | No | 18 |
|---|--|----|----|

Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles, rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery, removal of glass, etc else where measured)

- | | | | |
|---|--------------------------------|----|----|
| 8 | Window size 1 022 x 954mm high | No | 25 |
|---|--------------------------------|----|----|

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

- | | | | |
|---|-----------------------------------|----|---|
| 9 | Roof sheeting from timber purlins | m2 | 2 |
|---|-----------------------------------|----|---|

- | | | | |
|----|--|----|-----|
| 10 | Gypsum plasterboard ceilings, including timber brandering, cornices, etc | m2 | 179 |
|----|--|----|-----|

Taking out and removing sundry joinery work, fittings, etc

- | | | | |
|----|----------------|---|-----|
| 11 | Timber cornice | m | 100 |
|----|----------------|---|-----|

- | | | | |
|----|--------------|---|----|
| 12 | Fascia board | m | 70 |
|----|--------------|---|----|

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc

- | | | | |
|----|--------------------------------|----|-----|
| 13 | 30mm cement screed from floors | m2 | 179 |
|----|--------------------------------|----|-----|

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Alterations

REPAIRS AND RENOVATIONS

	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
14	Vinyl tiles from floors	m2	168		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
15	Eaves gutters and downpipes including brackets	m	106		
16	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	2		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.</u>				
17	Extra over brickwork for face brickwork in patches	m2	8		
	<u>CLEANING OF EXISTING SURFACES</u>				
18	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	220		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good internal cement plaster</u>				
19	Walls in patches	m2	30		
20	Floors where one brick walls removed	m	6		
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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	47
---	----------	----	----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	5
---	-----------	----	---

3	Hard rock	m3	3
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	41
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	99
---	--	----	----

Keeping excavations free of water

6	Keeping excavations free of water		Item
---	-----------------------------------	--	------

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Earthworks

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7 Backfilling to trenches, holes, etc m3 19

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8 Under floors, steps, pavings, etc m3 17

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9 Under floors, steps, pavings, etc m3 17

Coarse river sand filling supplied by the contractor

10 Under floors etc m3 2

Compaction of surfaces

11 Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density m2 53

Prescribed density tests on filling

12 "Modified AASHTO Density" test No 15

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13 Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming m2 53

14 To bottoms and sides of trenches, etc m2 119

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Earthworks

REPAIRS AND RENOVATIONS

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Earthworks

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Bill No. 2

Earthworks

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	1
---	----------	----	---

25 MPa Concrete in:

2	Aprons	m3	7
---	--------	----	---

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	71
---	---	---	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	3
---	-------	----	---

5	Footings	m3	6
---	----------	----	---

6	Surface beds	m3	9
---	--------------	----	---

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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

- 7 Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)

No 15

MOVEMENT JOINTS, ETC

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

- 8 10mm Joints not exceeding 300mm high

m 33

Saw cut joints

- 9 4 x 30mm Saw cuts in top of concrete

m 18

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

- 10 Aprons, etc

m2 117

REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

- 11 10mm Diameter bars

t 1.00

High tensile steel reinforcement to structural concrete work

- 12 12mm Diameter bars

t 1.00

- 13 16mm Diameter bars

t 1.00

Fabric reinforcement

- 14 Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)

m2 136

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

15 Mesh reinforcement with mesh reference number 395
laid in concrete footings, etc with 300mm wide side and
end laps (measured net)

m2

40

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Concrete, Formwork and Reinforcement

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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

1	One brick walls	m2	30
---	-----------------	----	----

SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

2	Half brick walls	m2	26
---	------------------	----	----

3	One brick walls	m2	106
---	-----------------	----	-----

BRICKWORK SUNDRIES

Brickwork reinforcement

4	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	115
---	--	---	-----

5	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	435
---	---	---	-----

Concrete prestressed fabricated lintels

6	115 x 75mm Lintels in lengths not exceeding 3m	m	6
---	--	---	---

Turning pieces

7	165mm Wide turning piece to lintels etc	m	3
---	---	---	---

Joint forming material in movement joints

8	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	6
---	--	----	---

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Bill No. 4

Masonry

REPAIRS AND RENOVATIONS

Galvanised hoop iron cramps, ties, etc

9	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	24
---	---	----	----

FACE BRICKWORK
Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

10	Extra over brickwork for face brickwork	m2	85
11	Extra over brickwork for face brickwork in foundation	m2	24
12	Half brick wall in face brickwork in beamfilling pointed one side	m2	7

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

13	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	3
14	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	3

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Bill No. 4

Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc

3	3 x 30mm In saw cut joints in floors	m	18
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	33

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Waterproofing

REPAIRS AND RENOVATIONS

PROFILED METAL SHEETING AND ACCESSORIES

0,6mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	40
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Roof Coverings, etc

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Bill No. 6

Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

1 Nutrition Centre approximately 36m² measured flat

Item

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

Sawn softwood

- 2 38 x 114mm timber support to existing trusses
(Provisional)

m

70

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- 3 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends

m

60

Tempered fibre-cement internal window sills

- 4 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations

m

28

SKIRTINGS

Wrought meranti

- 5 19 x 76mm Skirtings with 19mm quarter round nailed to walls

m

77

DOORS

NOTE:

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|---|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of branderling, etc, all as per manufacturers instructions | m2 | 215 |
|---|---|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, branderling spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 215 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 2 |

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 4 | 76mm Gypsum coved trim cornice | m | 133 |
|---|--------------------------------|---|-----|

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Bill No. 8

Ceilings, Partitioning and Access Flooring

REPAIRS AND RENOVATIONS

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Ceilings, Partitioning and Access Flooring

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Ceilings, Partitioning and Access Flooring

REPAIRS AND RENOVATIONS

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	<u>BILL NO. 10</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
	<u>CATCHES,CABIN HOOKS, ETC</u>				
	<u>"Solid" or equal approved</u>				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	10		
	<u>LOCKS</u>				
	<u>"Solid" or equal approved</u>				
2	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	3		
3	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	7		
	<u>"Cisa" or equal approved</u>				
4	CISA solid hardened steel padlock (Code: 28056-55-KD) with a C2000 5 pin keying system with a 55mm body size and supplied keyed different.	No	4		
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	Ironmongery				
	REPAIRS AND RENOVATIONS				

SUNDRIES
Dorma or equal approved

5	Stainless steel door stop type DDSS-SS-017 plugged	No	11
---	--	----	----

Supply and fit the following window ironmongery sundries

Brass or equal approved

6	Window handles	No	25
---	----------------	----	----

7	Peg stays	No	25
---	-----------	----	----

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

8	3mm Thick x 32mm wide plate with letters "DINNING ROOM"	No	1
---	---	----	---

9	3mm Thick x 32mm wide plate with letters "NUTRITIONAL CENTRE"	No	1
---	---	----	---

10	3mm Thick x 32mm wide plate with letters "KITCHEN"	No	1
----	--	----	---

"Union" or equal approved

11	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	1
----	--	----	---

12	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1
----	---	----	---

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Bill No. 10

Ironmongery

REPAIRS AND RENOVATIONS

MATS**Squeegee or equal approved**

- 13 2 000 x 1 900 x 17mm thick floor dust trap mat glued onto screed in and including mat surround fixed with 25 x 25mm aluminium angle plugged to concrete.

No

2

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC**"Vitrex" or equal approved**

- 14 Pinning boards size 2400 x 1220mm high fixed to brickwork

No

2

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Ironmongery

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Bill No. 10

Ironmongery

REPAIRS AND RENOVATIONS

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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- | | | | |
|---|--|----|---|
| 1 | Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall | No | 4 |
| 2 | Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 1300 x 2066mm high overall | No | 1 |
| 3 | Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc.; size 1626 x 2066mm high overall | No | 2 |

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Metalwork

REPAIRS AND RENOVATIONS

STEEL HANDRAILS, BALUSTRADES, ETC**Welded balustrading**

4	Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters	m	28
5	Extra over for L-intersection of horizontal balustrades	No	4
6	Extra over for flat closed end	No	4
7	80mm Expansion bolt	No	16

PRESSED STEEL DOOR FRAMES**Double rebated pressed frames suitable for half brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf**

8	Frame for door size, 813 x 2032mm high	No	4
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Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

9	Frame for door size, 813 x 2032mm high	No	6
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STEEL WINDOWS ETC**Standard Mildsteel top-hung open out windows with 10 x 10mm solid round-bars burglar bars to fixed and opening sections**

10	Window size, 600 x 900mm high	No	4
11	Window size, 887 x 440mm high	No	2

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Metalwork

REPAIRS AND RENOVATIONS

ALUMINIUM DOOR LOUVRE**Door louvres, etc****Approved fixed louvre units screwed into timber frames**

12

Purpose made louvre unit for 300 x 300mm high opening

No

1

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Metalwork

REPAIRS AND RENOVATIONS

SPECIALIST FLOOR COATINGS TO STRUCTURAL SCREEDS AND CONCRETE SURFACES

SUPPLEMENTARY PREAMBLES

Descriptions

All sub-strata preparation and product installation to be carried out by a specialist applicator approved by the manufacturer and in strict accordance with the manufacturer's specification and instructions. Reference areas to be approved by Principal Agent prior to commencement of work

The successful epoxy applicator should maintain close liaison with the manufacturer and ensure the manufacturer's technical department is present during the installation

References to product or product codes referred to Pro-Struct or equal or other approved

Special floor coatings

Non-Metallic Floor Hardener (Product Codes 509 / 520)

Strike off concrete surface and apply non-metallic floor hardener (product code 509) at a rate of 5kg/m² in two applications. On completion of the floating operation, cure concrete surface immediately with an application of a concrete curing compound (product code 520) at a rate of 5-7m²/litre

Resin Floor Hardener (Product Code 541)

All concrete surfaces to be thoroughly cleaned to remove all loose and friable material

Apply by roller 3 coats anti-dusting case hardening floor hardener (Product code 541), allowing 3 hours between coats and applied at film thickness of 60 microns per coat

Flocote High Build Epoxy Coating (Product Code 639 / 723)

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REPAIRS AND RENOVATIONS

Scarify or vacublast concrete surface to remove all laitence and provide a key for the epoxy system

Apply by roller, a solvent based primer coat (product code 639), ensuring a coverage of 6m² per litre. Allow to cure

Trowel apply Self-Levelling Epoxy Screed (product code 723) to a nominal thickness of 1,0mm

Self Levelling Floor Coating (Product Codes 639 / 615 / 722)

Scarify or vacublast concrete surface to remove all laitence and provide a key for the epoxy system

Apply by roller a solvent based primer coat (product code 639), ensuring a coverage of 6m² per litre. Allow to cure

Trowel apply Self-Levelling Epoxy Screed (product code 615) to a nominal thickness of 2,0mm

Wet areas to receive 2 coats of Non Slip onto Self Levelling Screed (product code 722)

Epoxy Mortar System (Product Codes 624R / 624M)

Scarify or vacublast concrete surface to remove all laitence and provide a key for the epoxy system

Prime prepared areas with a two-pack solvent-free epoxy (product code 624R) applied at 3m² per litre. Into the wet epoxy, blind the surface with a medium-grit aggregate and allow to cure. Sweep off any excess aggregate prior to commencement of the flooring system

Trowel apply a 3-component epoxy mortar (product code 624R) onto the primed surfaces, maintaining a nominal thickness of 6mm. Allow epoxy screed to cure and overcoat with two coats of a pigmented epoxy resin (product code 624R) ensuring a coverage of 6m² per litre per coat

Polyurethane Textured Mortar System (Product Code UT System)

Scarify or vacublast concrete surface to remove all

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laitence and provide a key for the polyurethane urea flooring system.

Apply by notched trowel a 6mm nominal thickness semi-levelling polyurethane urea floor screed (product code UT), finished with a non-slip sealed surface (under the cooking pots)

Coved Skirtings (Product Codes 624R / 624M)

Form coved skirting 75mm high at the junction of the wall and floor with a radius of 25mm using a 3-component epoxy mortar matrix (product code 624R). Overcoat the coved skirting with a solvent-free epoxy system (product code 624R) (colour to match the floors)

Isolation and Construction Joints (Product Code 744)

On completion of the various epoxy and polyurethane area flooring systems joints in the sub-base are to be carried through the epoxy and filled with a two-pack quick-seal polysulphide joint sealant (product code 744)

Prime with Pro-struct 639 penetrating primer at approximately 6m²/litre, allow to cure and apply two component Pro-struct 615 self levelling floor coating at a rate of 8m²/20litre kit (2mm thick) and finishing to a non-slip finish with Pro-struct 722 non-slip clear sealer at a rate of 8m²/litre, all in accordance with the manufacturer's instructions (Preparation of floors elsewhere measured)

3	On screeded floors and landings	m2	97
4	On 100mm high coved skirting	m	68

SELF LEVELLING FLOOR COMPOUND

5mm thick commercial grade self-levelling screed (over 25MPA) and moisture barrier laid in accordance with the manufacturer's instructions

5	On floors	m2	160
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**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

6 40mm High brass or aluminium transition strip built into
screed between different floor finishes

m

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REPAIRS AND RENOVATIONS

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	80
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	8
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	8

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4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	36
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	8
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	8
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	30
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	25
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	25
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	20
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	8
12	Hard rock	m3	4
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	30
14	110mm Pipes laid in trenches (trenches elsewhere)	m	25
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	4
16	110mm Junction	No	4
17	110mm Access bend	No	4
18	110mm Access junction	No	4

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	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	2		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>Franke or equal approved</u>				
21	1.2mm Grade 304 18/10 stainless steel S2 catering double bowl sink size 1850 x 650 x 1050mm with basket strainer waste fittings. All items to be fully fitted with all necessary plumbing accessories.	No	2		
22	450mm Diameter prep bowl stainless steel inset bowl with basket strainer waste fittings. All items to be fully fitted with all necessary plumbing accessories.	No	3		
	<u>Daisy or equal approved</u>				
23	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat	No	2		
24	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	2		
	<u>Shower Tray</u>				
25	900 x 900 x 150mm deep Acrylic shower tray installed as per manufacturer's recommendation	No	2		
	<u>WASTE UNIONS, ETC</u>				
26	32mm Basin waste union	No	2		
27	38mm Bath or sink waste union	No	3		
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TRAPS ETC

28	40mm Rubber deep seal combination "P" trap for double bowl sink.	No	2
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29	50mm shower trap	No	2
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TAPS, VALVES, ETC
Cobra Watertech or equal approved

30	Chrome plated sink mixer with aerated swivel outlet mounted on the sink. All items to be fully fitted with all necessary plumbing accessories.	No	5
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31	Chrome plated basin mixer with aerated swivel outlet mounted on the basin. All items to be fully fitted with all necessary plumbing accessories.	No	2
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32	15 x 350mm CP flexible connector	No	2
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33	22mm T-956 "Taryn" shower mixer	No	2
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34	15mm 072-15 Shower rose.	No	2
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35	15mm 029CP overhead shower arm.	No	2
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36	20mm Full way stop cock	No	13
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SANITARY PLUMBING
HDPE pipes

37	50mm Pipes	m	35
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38	50mm Pipes chased into brick walls	m	30
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39	110mm Pipes	m	28
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Extra over HDPE pipes for fittings

40	50mm Bend	No	14
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41	50mm Access bend	No	7
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42	50mm Junction	No	7
43	50mm Access junction	No	7
44	110mm Bend	No	2
45	110mm Access bend	No	2
46	110mm Socket	No	2
47	110mm Junction	No	2
48	110mm Reducing junction	No	2
49	110mm Access junction	No	2
50	110mm Two-way vent valve	No	2
51	110mm Pan connector	No	2

Testing

52	Testing sewer pipe system		Item
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WATER SUPPLIES**Class "O" copper pipes:**

53	15mm Pipes chased in brickwork	m	50
54	22mm Pipes chased in brickwork	m	45
55	28mm Pipes	m	25

Extra over class "O" copper pipes for capillary fittings

56	15mm Fittings	No	15
57	22mm Fittings	No	15
58	28mm Fittings	No	15

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<u>Copper flexible service pipes</u>			
59	15mm Service pipe 340mm girth	No	1
<u>Testing</u>			
60	Testing sewer pipe system		Item
<u>Sundries</u>			
61	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	1
<u>RAIN WATER HARVESTING</u>			
<u>Rainwater harvesting</u>			
62	5000 litre 'JOJO' or equal approved tank complete with lid and including, fittings, tap, securing the tank to stand, etc (plinth elsewhere).	No	2
<u>SLEEVES</u>			
<u>HDPE sleeves for pipes not exceeding 100mm diameter</u>			
63	Sleeve not exceeding 250mm long	No	1
<u>HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>			
64	Sleeve not exceeding 250mm long	No	1
<u>HOLES ETC</u>			
<u>Core drilling of hole for pipe not exceeding 100mm and not exceeding 150mm diameter</u>			
65	200mm Reinforced concrete slab, beam, wall, etc	No	1
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	<u>BILL NO. 15</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² but not ne 0.5m2	m2	4	
	<u>4mm Obscure glass</u>			
2	Panes exceeding 0,1m ² but not ne 0.5m2	m2	2	
	<u>MIRRORS</u>			
	<u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u>			
3	6mm "GG" quality polished glass mirror 600 x 450mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws	No	2	
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	Glazing			
	REPAIRS AND RENOVATIONS			

PAINTWORK, ETC TO NEW WORK**ON FLOATED PLASTER****Prepare, stop and apply one coat masonry primer and two coats acrylic PVA paint**

5	On internal plastered walls	m2	94
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ON PLASTERBOARD**Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643**

6	On ceilings and cornices	m2	215
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ON FIBRE-CEMENT**Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use**

7	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	14
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8	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	3
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ON METAL**Prepare and apply two coats bitumen paint**

9	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	28
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Prepare, stop and one coat water based galvanised iron primer and two coats UV-resistant water

10	On corrugated roofs (measured on flat)	m2	236
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All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority.

Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work.

"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect.

"Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect.

The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.

The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer.

Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing.

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REPAIRS AND RENOVATIONS

The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered.

The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.

Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.

Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

REMOVAL OF EXISTING WORK

Breaking up and removing unreinforced concrete

1	85mm Thick concrete paving	m2	86
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Taking out and removing doors, windows, etc from brickwork to be demolished

2	Timber single door not exceeding 2,5m2	No	3
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Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)

3	Steel gate and frame not exceeding 2,5m2	No	1
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Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	10
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REPAIRS AND RENOVATIONS

Sealing of existing roof

5	Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary "Labour Intensive"	m2	182
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REPAIR AND SERVICING OF EXISTING
Repair and servicing of existing doors

6	Inspect and service timber door 813 x 2032 mm high including sanding down,etc leave in good working order	No	3
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Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles ,rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)

7	Window size 1022 x 554mm high	No	19
8	Window size 1 022 x 954mm high	No	19
9	Window size 1 022 x 1 245mm high	No	19

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

10	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	166
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Taking out and removing sundry joinery work, fittings, etc

11	Timber cornice	m	86
12	Fascia board	m	60

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	<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>				
13	30mm cement screed from floors	m2	166		
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
14	Vinyl tiles from floors	m2	134		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
15	Gutters and down pipes including brackets	m	90		
16	Take out and remove Jojo tanks (used for rainwater harvesting) including brick stand	No	2		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.</u>				
17	Extra over brickwork for face brickwork in patches	m2	9		
	<u>CLEANING OF EXISTING SURFACES</u>				
18	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	168		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good internal cement plaster</u>				
19	Walls in patches	m2	34		

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	30
---	----------	----	----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	3
---	-----------	----	---

3	Hard rock	m3	2
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	8
---	--	----	---

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	45
---	--	----	----

Keeping excavations free of water

6	Keeping excavations free of water		Item
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Bill No. 2
Earthworks (Provisional)

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	18
---	-------------------------------------	----	----

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	18
---	-----------------------------------	----	----

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	15
---	-----------------------------------	----	----

Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	2
----	------------------	----	---

Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	25
----	---	----	----

Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	8
----	--------------------------------	----	---

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	81
----	--	----	----

14	To bottoms and sides of trenches, etc	m2	92
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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	1
---	----------	----	---

25 MPa Concrete in:

2	Aprons	m3	5
---	--------	----	---

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	54
---	---	---	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	1
---	-------	----	---

5	Footings	m3	4
---	----------	----	---

6	Surface beds	m3	4
---	--------------	----	---

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

- 7 Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)

No 15

MOVEMENT JOINTS, ETC

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

- 8 10mm Joints exceeding 300mm high

m2 38

Saw cut joints

- 9 4 x 30mm Saw cuts in top of concrete

m 12

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a power float

- 10 Surface beds etc

m2 54

REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

- 11 10mm Diameter bars

t 1.00

High tensile steel reinforcement to structural concrete work

- 12 12mm Diameter bars

t 1.00

- 13 16mm Diameter bars

t 1.00

Fabric reinforcement

- 14 Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)

m2 81

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REPAIRS AND RENOVATIONS

15 Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)

m2

25

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Bill No. 3

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)**Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar**

1	One brick walls	m2	30
---	-----------------	----	----

BRICKWORK SUNDRIES**Brickwork reinforcement**

2	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	93
---	---	---	----

FACE BRICKWORK**Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.**

3	Extra over brickwork for face brickwork in foundation	m2	24
---	---	----	----

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

4	Coping on raking top of one brick wall	m	36
---	--	---	----

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Masonry

REPAIRS AND RENOVATIONS

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Masonry

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Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

Two-part grey poly sulphide sealing compound applied with a caulking gun, including backing cord, bond breaker, primer, etc

3	3 x 30mm In saw cut joints in floors	m	12
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	38

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Waterproofing

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

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REPAIRS AND RENOVATIONS

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d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

Sawn softwood

1 38 x 114mm timber support to existing trusses
(Provisional)

m

60

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

2	10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends	m	60
---	---	---	----

Tempered fibre-cement internal window sills

3	150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations	m	19
---	---	---	----

SKIRTINGS

Wrought meranti

4	19 x 76mm Skirtings with 19mm quarter round nailed to walls	m	71
---	---	---	----

DOORS

NOTE:

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

40mm thick horizontal hardwood entrance door suitable for paint on both sides, hung to steel frames and installed in accordance with the manufacturers' recommendations

5	44mm Single door, size 813 x 2 032mm high	No	1
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Carpentry and Joinery

REPAIRS AND RENOVATIONS

INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|---|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of branderling, etc, all as per manufacturers instructions | m2 | 166 |
|---|---|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, branderling spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 134 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 2 |

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

- | | | | |
|---|--|----|----|
| 4 | Ceilings on 38 x 38mm branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 32 |
|---|--|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|----|
| 5 | 76mm Gypsum coved trim cornice | m | 86 |
|---|--------------------------------|---|----|

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"Solid" or equal approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<u>LOCKS</u>			
	<u>"Solid" or equal approved</u>			
2	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	2	
3	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	1	
	<u>"Cisa" or equal approved</u>			
4	CISA solid hardened steel padlock (Code: 28056-55-KD) with a C2000 5 pin keying system with a 55mm body size and supplied keyed different.	No	1	
	<u>Supply and fit the following window ironmongery sundries</u>			
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	REPAIRS AND RENOVATIONS			

Brass or equal approved

5	Window handles	No	19
6	Peg stays	No	19
7	Sliding stays	No	19

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

8	3mm Thick x 32mm wide plate with letters "WORK ROOM"	No	1
9	3mm Thick x 32mm wide plate with letters "STORE ROOM"	No	1
10	3mm Thick x 32mm wide plate with letters "MEDIA CENTRE"	No	1

"Union" or equal approved

11	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	1
12	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

13	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	1
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Ironmongery

REPAIRS AND RENOVATIONS

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC****"Vitrex" or equal approved**14 Pinning boards size 2400 x 1220mm high fixed to
brickwork

No

2

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Ironmongery**REPAIRS AND RENOVATIONS**

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Ironmongery

REPAIRS AND RENOVATIONS

STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- 1 Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall "LI"

No

1

STEEL HANDRAILS, BALUSTRADES, ETC**Welded balustrading**

- 2 Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters
- 3 Extra over for L-intersection of horizontal balustrades
- 4 Extra over for flat closed end
- 5 80mm Expansion bolt

m

17

No

4

No

4

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Metalwork

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Metalwork

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Metalwork

REPAIRS AND RENOVATIONS

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SELF LEVELLING FLOOR COMPOUND

5mm thick commercial grade self-levelling screed (over 25MPA) and moisture barrier laid in accordance with the manufacturer's instructions

3	On floors	m2	134
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CORNER PROTECTORS, DIVIDING STRIPS, ETC.

4	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	1
---	--	---	---

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Plastering

REPAIRS AND RENOVATIONS

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	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>RAINWATER DISPOSAL</u>			
	<u>GUTTERS, DOWNPIPES, ETC.</u>			
	<u>Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc</u>			
1	100 x 100mm galvanised section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	60	
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	8	
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	4	
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REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	36		
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	8		
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	8		
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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

PAINTWORK, ETC TO NEW WORK**ON PLASTERBOARD**

**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

4	On ceilings and cornices	m2	134
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ON FIBRE-CEMENT

**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

5	On ceilings and cornices	m2	32
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**Prepare, stop and apply one coat alkali resistant
primer and two full coats acrylic emulsion paint for
exterior use**

6	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	27
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7	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	3
---	---	----	---

ON METAL

Prepare and apply two coats bitumen paint

8	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	21
---	--	----	----

**Prepare, stop and one coat water based galvanised
iron primer and two coats UV-resistant water**

9	On corrugated roofs (measured on flat)	m2	182
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Paintwork

REPAIRS AND RENOVATIONS

	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
10	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	20		
	<u>ON WOOD</u>				
	<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>				
11	On doors	m2	60		
	<u>Prepare and apply three coats varnish</u>				
12	On doors	m2	10		
	<u>One coat pink wood primer and two coats clear polyurethane varnish</u>				
13	On skirtings, rails, etc. not exceeding 300mm girth	m	71		
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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	629
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	63
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3	Hard rock	m3	31
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Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	190
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Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1,863
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Keeping excavations free of water

6	Keeping excavations free of water	Item	
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Section 10: Classrooms Block F, D & HOD

Bill No. 1

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	360
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	379
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	379
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Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	64
----	------------------	----	----

Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1,265
----	---	----	-------

Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	75
----	--------------------------------	----	----

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	1,265
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14	To bottoms and sides of trenches, etc	m2	2,248
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Bill No. 1

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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Section 10: Classrooms Block F, D & HOD

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Earthworks (Provisional)

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Section 10: Classrooms Block F, D & HOD

Bill No. 1

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	6
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25 MPa Concrete in:

2	Aprons	m3	43
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3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	428
---	---	---	-----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	9
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5	Footings	m3	105
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6	Surface beds	m3	160
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7	Beams	m3	6
---	-------	----	---

8	Steps, urinal steps, cupboard platforms, etc	m3	15
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Section 10: Classrooms Block F, D & HOD

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

9	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	60
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MOVEMENT JOINTS, ETC**Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces**

10	10mm Joints exceeding 300mm high	m2	635
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Saw cut joints

11	4 x 30mm Saw cuts in top of concrete	m	381
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CONCRETE SUNDRIES**Finishing top surfaces of concrete with wooden float finish**

12	Ramps, etc	m2	24
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13	Aprons, etc	m2	428
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ROUGH FORMWORK (DEGREE OF ACCURACY II)**Rough formwork to sides**

14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30
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SMOOTH FORMWORK**Smooth formwork to sides**

15	Soffits of beams	m2	46
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16	Sides of beams	m2	103
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Section 10: Classrooms Block F, D & HOD

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

REINFORCEMENT
Mild tensile steel reinforcement to structural concrete work

17	10mm Diameter bars	t	3.00
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High tensile steel reinforcement to structural concrete work

18	12mm Diameter bars	t	3.00
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19	16mm Diameter bars	t	3.00
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Fabric reinforcement

20	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	1,265
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21	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	419
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

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Bill No. 2

Concrete, Formwork and Reinforcement

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Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

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FOUNDATIONS (PROVISIONAL)
Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	Half brick walls	m2	9
2	One brick walls	m2	873

SUPERSTRUCTURE
Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

3	Piers	m3	9
4	Half brick walls	m2	17
5	One brick walls	m2	2,176

BRICKWORK SUNDRIES
Brickwork reinforcement

6	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	81
7	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	12,670

Concrete prestressed fabricated lintels

8	115 x 75mm Lintels in lengths not exceeding 3m	m	15
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Turning pieces

9	230mm Wide turning piece to lintels etc	m	161
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Joint forming material in movement joints

10	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	130
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Bill No. 3

Masonry

REPAIRS AND RENOVATIONS

R

	<u>Galvanised hoop iron cramps, ties, etc</u>				
11	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	321		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>				
12	Extra over brickwork for face brickwork	m2	1,115		
13	Extra over brickwork for face brickwork in foundation	m2	324		
14	Extra over brickwork for face brickwork in pier	m2	123		
15	Half brickwall in facing in beamfilling pointed one side	m2	102		
16	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	8		
17	Fair raking cutting	m	72		
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
18	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	239		
19	Cut face brick-on-edge internal window cill, 115mm wide, set horizontal and flush in cement mortar and pointed on top and front edge	m	159		
20	Coping on top of one brick wall	m	160		
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Masonry

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Bill No. 3

Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

Two-part grey poly sulphide sealing compound applied with a caulking gun, including backing cord, bond breaker, primer, etc

3	3 x 30mm In saw cut joints in floors	m	294
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	668

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Waterproofing
REPAIRS AND RENOVATIONS

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Waterproofing

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Bill No. 4

Waterproofing

REPAIRS AND RENOVATIONS

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PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	1,518
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	148

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Bill No. 5

Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Bill No. 5

Roof Coverings, etc

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Bill No. 5

Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Bill No. 6

Carpentry and Joinery

REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

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d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

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Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

- | | | |
|---|---|------|
| 1 | Classroom Block D approximately 372m ² measured flat | Item |
| 2 | Classroom Block D HOD approximately 464m ² measured flat | Item |
| 3 | Classroom Block F approximately 429m ² measured flat | Item |

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- | | | | |
|---|--|---|-----|
| 4 | 225 x 9mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends | m | 370 |
|---|--|---|-----|

Tempered fibre-cement internal window sills

- | | | | |
|---|---|---|-----|
| 5 | 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations | m | 158 |
|---|---|---|-----|

SKIRTINGS

Wrought meranti

- | | | | |
|---|---|---|-----|
| 6 | 19 x 76mm Skirtings with 19mm quarter round nailed to walls | m | 514 |
|---|---|---|-----|

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

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DOORS

NOTE:

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

Wrought hardwood framed and batten doors hung to timber frames (elsewhere measured) of 108 x 40mm top rail and stiles, 144x 22mm middle ledge, 220 x 22mm bottom rail, filled with 76 x 22mm tongued and grooved V-jointed battens, with 50 x 50mm hardwood weather bar routed into bottom panel of door

7	40mm Single door, size 813 x 2032mm high	No	23
8	40mm Double door, size 950 x 2032mm high	No	2

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

9	40mm Door 813 x 2032mm high	No	4
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FRAMED FRAMES, MULLIONS, TRANSOMS, ETC

Wrought hardwood

10	69 x 69mm Door frames for single door 980 x 1845mm high door with 13mm rebate installed complete including ties to walls	No	3
----	--	----	---

Door grills, etc

Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)

11	300 x 300mm aluminium louvre	m	3
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Carpentry and Joinery

REPAIRS AND RENOVATIONS

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, branderling spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 964 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 18 |

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

- | | | | |
|---|--|----|-----|
| 4 | Ceilings on 38 x 38mm branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 301 |
|---|--|----|-----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 821 |
|---|--------------------------------|---|-----|

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Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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	<u>BILL NO. 9</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
	<u>CATCHES, CABIN HOOKS, ETC</u>				
	<u>"Solid" or equal approved</u>				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	17		
	<u>LOCKS</u>				
	<u>"Solid" or equal approved</u>				
2	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	5		
3	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	25		
	<u>"Cisa" or equal approved</u>				
4	CISA solid hardened steel padlock (Code: 28056-55-KD) with a C2000 5 pin keying system with a 55mm body size and supplied keyed different.	No	17		
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DOOR CLOSERS AND FLOOR SPRINGS**Yale or equal approved**

5	Y202RC or equal approved heavy duty door closer with cover fixed to metal	No	4
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PUSH PLATES AND KICK PLATES**Stainless steel or equal approved**

6	Stainless steel kick plates 300 x 813 plate	No	8
---	---	----	---

SUNDRIES**Dorma or equal approved**

7	Stainless steel door stop type DDSS-SS-017 plugged	No	26
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NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

8	3mm Thick x 32mm wide plate with letters "CLASSROOM 1"	No	1
9	3mm Thick x 32mm wide plate with letters "CLASSROOM 2"	No	1
10	3mm Thick x 32mm wide plate with letters "CLASSROOM 3"	No	1
11	3mm Thick x 32mm wide plate with letters "CLASSROOM 4"	No	1
12	3mm Thick x 32mm wide plate with letters "CLASSROOM 5"	No	1
13	3mm Thick x 32mm wide plate with letters "CLASSROOM 6"	No	1

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REPAIRS AND RENOVATIONS

14	3mm Thick x 32mm wide plate with letters "CLASSROOM 7"	No	1		
15	3mm Thick x 32mm wide plate with letters "CLASSROOM 8"	No	1		
16	3mm Thick x 32mm wide plate with letters "CLASSROOM 9"	No	1		
17	3mm Thick x 32mm wide plate with letters "CLASSROOM 10"	No	1		
	<u>"Union" or equal approved</u>				
18	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	1		
19	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	1		
20	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>"CTM" or other equal approved</u>				
21	145 x 75mm Surface mounted polished stainless steel toilet roll holder plugged	No	5		
22	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	4		
23	304 x 100 x 134mm high Manually operated surface mounted stainless steel vandal and theft free soap dispenser with spindle system	No	2		
	<u>"Chairman Industries" or other approved</u>				
24	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	2		
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25	750 long x 80mm Projecting stainless steel straight grab rail fixed in position	No	2		
26	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	2		
<u>MATS</u>					
<u>Squeegee or equal approved</u>					
27	1000 x 1000 x 17mm thick floor dust trap mat glued onto screed in and including mat surround fixed with 25 x 25mm aluminium angle plugged to concrete.	No	15		
<u>STEEL CUPBOARDS</u>					
<u>Approved steel lockers with standard baked enamel finish</u>					
28	1800 x 900 x 450mm double door lockable stationery steel cupboard with 4 steel shelves fixed to wall with 60mm M8 coach screws , 60mm wall plugs to be provided. Insert screws with steel M8 x 25mm washers to be drilled holes at the back of steel cupboard. Screw steel cupboard to wall plug fitted to wall drilled holes. Colour: Hammertone Grey	No	29		
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
<u>"Vitrex" or equal approved</u>					
29	Parrot Bulletin board aluminium frame or similar approved size 2400 x 1200mm fixed to brickwork. Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000.	No	32		
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30	<p>Parrot Bulletin board aluminium frame or similar approved size 6900 x 1200mm fixed to brickwork. Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000.</p> <p><u>Chalkboards</u></p>	No	2		
31	<p>Vitrex or similar approved Model 2100 standard vitreous enamel steel wall mounted educational range chalkboard, overall size 1200 mm high x 2400 mm wide, reference (2109), supplied complete with integral anodised aluminium chalk rail, fixing components and secured in position to brickwork at 1200mm height from FFL. Enamel steel chalkboard surface to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2). All chalkboards to comply with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein.</p>	No	30		
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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

1	Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall	No	17
---	--	----	----

STEEL HANDRAILS, BALUSTRADES, ETC

Welded balustrading

2	Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters	m	144
3	Extra over for L-intersection of horizontal balustrades	No	12
4	Extra over for flat closed end	No	76
5	80mm Expansion bolt	No	306

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Metalwork

REPAIRS AND RENOVATIONS

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PRESSED STEEL DOOR FRAMES

Double rebated pressed frames suitable for half brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

6	Frame for door size, 813 x 2 032mm high	No	3
---	---	----	---

Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

7	Frame for door size, 813 x 2 032mm high	No	27
---	---	----	----

MILD STEEL BURGLAR BARS

50 x 8mm steel flat bars fixed to brick walls detail as per Architectural drawings attached to these bills of quantities

8	Window size 533 x 654mm high	No	8
---	------------------------------	----	---

9	Window size 900 x 900mm high	No	1
---	------------------------------	----	---

10	Window size 1 000 x 1 200mm high	No	153
----	----------------------------------	----	-----

ALUMINIUM WINDOWS

Standard aluminium windows

11	Window size 533 x 654mm high	No	8
----	------------------------------	----	---

12	Window size 900 x 900mm high	No	1
----	------------------------------	----	---

13	Window size 1 000 x 1 200mm high	No	153
----	----------------------------------	----	-----

ALUMINIUM DOOR LOUVRE

Door louvres, etc

Approved fixed louvre units screwed into timber frames

14	Purpose made louvre unit for 300 x 300mm high opening	No	3
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REPAIRS AND RENOVATIONS

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INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	2,234
5	On narrow widths	m2	68

EXTERNAL PLASTER

Cement plaster on concrete

6	On beams	m2	148
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CORNER PROTECTORS, DIVIDING STRIPS, ETC.

7	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	17
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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

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Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

0.6mm galvanised and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	394
2	Extra over 100x 100mm eaves gutter for stopped end	No	12
3	Extra over downpipe for nozzle	m	68
4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	308

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

5	Extra over 75mm dia. rainwater pipe for bend	No	68
6	Extra over 75mm rainwater pipe for shoe	No	68
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	35
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	40
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	45
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	20
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	6
12	Hard rock	m3	3
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	40
14	110mm Pipes laid in trenches (trenches elsewhere)	m	45
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	12
16	110mm Junction	No	10
17	110mm Access bend	No	12
18	110mm Access junction	No	1

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REPAIRS AND RENOVATIONS

	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	1		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>Daisy or equal approved</u>				
21	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" heavy duty toilet seat	No	3		
	<u>"Vaal" or equal approved</u>				
22	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	2		
23	Vaal Sanitaryware Bantam vitreous china cloakroom basin colour White (Code: 703003), overall size 455 x 290mm with one taphole (RHS) including integrated overflow and chainstay hole, bolted to wall with 2No.10mm bolts (Code: 8448Z0) and sealed with silicone sealant where basin meets wall.	No	3		
24	610 x 385mm Washdown wall hung urinal fully installed and supplied with all necessary accessories	No	2		
25	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	No	2		
	<u>WASTE UNIONS, ETC</u>				
26	32mm Basin waste union	No	5		
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TAPS, VALVES, ETC
Approved

27	32mm Chromium plated exposed type urinal flush valve including flush pipe	No	2
28	15mm CP angle regulating valve	No	10
29	Chrome plated elbow action bib tap with trigger control hand wash set with red/blue indice. All items to be fully fitted with all necessary plumbing accessories.	No	5
30	20mm Full way stop cock	No	11
31	15 x 350mm CP flexible connector	No	5

SANITARY PLUMBING
HDPE pipes

32	50mm Pipes	m	20
33	50mm Pipes chased into brick walls	m	30
34	110mm Pipes	m	20

Extra over HDPE pipes for fittings

35	50mm Bend	No	12
36	50mm Access bend	No	12
37	50mm Junction	No	12
38	50mm Access junction	No	12
39	110mm Bend	No	10
40	110mm Access bend	No	5
41	110mm Socket	No	5
42	110mm Junction	No	5

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REPAIRS AND RENOVATIONS

43	110mm Reducing junction	No	5
44	110mm Access junction	No	5
45	110mm Two-way vent valve	No	5
46	110mm Pan connector	No	5

Testing

47	Testing sewer pipe system		Item
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WATER SUPPLIES

Class "O" copper pipes:

48	15mm Pipes chased in brickwork	m	40
49	22mm Pipes chased in brickwork	m	30
50	28mm Pipes	m	25

Extra over class "O" copper pipes for capillary fittings

51	15mm Fittings	No	15
52	22mm Fittings	No	15
53	28mm Fittings	No	10

Copper flexible service pipes

54	15mm Service pipe 340mm girth	No	1
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Testing

55	Testing water pipe system		Item
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SLEEVES**HDPE sleeves for pipes not exceeding 100mm diameter**

56	Sleeve not exceeding 250mm long	No	1
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HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter

57	Sleeve not exceeding 250mm long	No	1
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HOLES ETC**Core drilling of hole for pipe not exceeding 100mm and not exceeding 150mm diameter**

58	200mm Reinforced concrete slab, beam, wall, etc	No	1
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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

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ON FIBRE-CEMENT

**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

4 On ceilings and cornices m2 301

**Prepare, stop and apply one coat alkali resistant
primer and two full coats acrylic emulsion paint for
exterior use**

5 On external fibre-cement fascias and barge boards
including priming metal cover strips and screw heads
with one coat zinc phosphate alkyd resin primer m2 79

6 On internal fibre-cement window cill including priming
metal cover strips and screw heads with one coat zinc
phosphate alkyd resin primer m2 11

Prepare and apply two coats bitumen paint

7 On inside of 100 x 100mm galvanised sheet iron eaves
gutter before fixing m2 75

**Prepare and apply one coat zinc phosphate alkyd
resin primer, one coat universal undercoat and two
full coats high gloss enamel paint**

8 On gates, grilles, burglar screens, balustrades, etc (both
sides measured over the full flat area) m2 716

ON WOOD

**Prepare, stop and apply one coat wood primer and
two coats PVA paint**

9 On doors m2 75

**One coat pink wood primer and two coats clear
polyurethane varnish**

10 On doors m2 40

11 On skirtings, rails, etc. not exceeding 300mm girth m 514

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Paintwork

REPAIRS AND RENOVATIONS

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	764
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	40
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3	Hard rock	m3	20
---	-----------	----	----

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	294
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Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	987
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Keeping excavations free of water

6	Keeping excavations free of water	Item	
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REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	190
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	116
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	116
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Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	20
----	------------------	----	----

Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	260
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Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	30
----	--------------------------------	----	----

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	260
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14	To bottoms and sides of trenches, etc	m2	578
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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	4
<u>25 MPa Concrete in:</u>			
2	Aprons	m3	20
3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	196

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	6
5	Footings	m3	60
6	Surface beds	m3	58
7	Beams	m3	6
8	Steps, urinal steps, cupboard platforms, etc	m3	4

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Concrete, Formwork and Reinforcement
REPAIRS AND RENOVATIONS

TEST BLOCKS

9	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	30
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MOVEMENT JOINTS, ETC**Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces**

10	10mm Joints exceeding 300mm high	m2	312
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Saw cut joints

11	4 x 30mm Saw cuts in top of concrete	m	116
----	--------------------------------------	---	-----

CONCRETE SUNDRIES**Finishing top surfaces of concrete with wooden float finish**

12	Ramps, etc	m2	12
----	------------	----	----

13	Aprons, etc	m2	196
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ROUGH FORMWORK (DEGREE OF ACCURACY II)**Rough formwork to sides**

14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	16
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SMOOTH FORMWORK**Smooth formwork to sides**

15	Soffits of beams	m2	18
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16	Sides of beams	m2	42
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

REINFORCEMENT
Mild tensile steel reinforcement to structural concrete work

17	10mm Diameter bars	t	1.00
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High tensile steel reinforcement to structural concrete work

18	12mm Diameter bars	t	1.00
----	--------------------	---	------

19	16mm Diameter bars	t	1.00
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Fabric reinforcement

20	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	260
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21	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	242
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

3	Piers	m3	2
4	Half brick walls	m2	258
5	One brick walls	m2	888

BRICKWORK SUNDRIES

Brickwork reinforcement

6	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,158
7	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	6,314

Concrete prestressed fabricated lintels

8	115 x 75mm Lintels in lengths not exceeding 3m	m	32
---	--	---	----

Turning pieces

9	165mm Wide turning piece to lintels etc	m	52
10	230mm Wide turning piece to lintels etc	m	60

Galvanised hoop iron cramps, ties, etc

11	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	196
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Masonry
REPAIRS AND RENOVATIONS

FACE BRICKWORK

Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

12	Extra over brickwork for face brickwork	m2	742
13	Extra over brickwork for face brickwork in foundation	m2	166
14	Extra over brickwork for face brickwork in pier	m2	42
15	Half brick wall facing in beam filling	m2	60
16	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	14
17	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	12
18	Fair raking cutting	m	48
<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>			
19	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	122
20	Coping on top of one brick wall	m	86
21	Coping on raking top of one brick wall	m	60

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REPAIRS AND RENOVATIONS

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Masonry

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Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	316		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	312		

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Waterproofing

REPAIRS AND RENOVATIONS

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PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	312		
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	56		

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Roof Coverings, etc

REPAIRS AND RENOVATIONS

R

Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

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PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

- 1 Grade R Classrooms B approximately 260m² measured flat

No

1

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- 2 225 x 9mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends

m

220

Tempered fibre-cement internal window sills

- 3 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations

m

48

SKIRTINGS

Wrought meranti

- 4 19 x 76mm Skirtings with 19mm quarter round nailed to walls

m

372

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DOORS**NOTE:**

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

Wrought hardwood framed and batten doors hung to timber frames (elsewhere measured) of 108 x 40mm top rail and stiles, 144x 22mm middle ledge, 220 x 22mm bottom rail, filled with 76 x 22mm tongued and grooved V-jointed battens, with 50 x 50mm hardwood weather bar routed into bottom panel of door

5	40mm Single door, size 813 x 2032mm high	No	5
---	--	----	---

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

6	40mm Door 813 x 2032mm high	No	14
---	-----------------------------	----	----

7	40mm Door 1000 x 2032mm high	No	2
---	------------------------------	----	---

Door grills, etc

Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)

8	300 x 300mm aluminium louvre	m	2
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INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|--|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brandering, etc, all as per manufacturers instructions | m2 | 260 |
|---|--|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, brandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 210 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 4 |

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

- | | | | |
|---|---|----|----|
| 4 | Ceilings on 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 50 |
|---|---|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 438 |
|---|--------------------------------|---|-----|

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Ceilings, Partitions and Access Flooring

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DOOR CLOSERS AND FLOOR SPRINGS**Yale or equal approved**

- | | | | |
|---|---|----|---|
| 5 | Y202RC or equal approved heavy duty door closer with cover fixed to metal | No | 4 |
|---|---|----|---|

PUSH PLATES AND KICK PLATES**Stainless steel or equal approved**

- | | | | |
|---|---|----|---|
| 6 | Stainless steel kick plates 300 x 813 plate | No | 4 |
|---|---|----|---|

SUNDRIES**Dorma or equal approved**

- | | | | |
|---|--|----|----|
| 7 | Stainless steel door stop type DDSS-SS-017 plugged | No | 21 |
|---|--|----|----|

NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

- | | | | |
|----|--|----|---|
| 8 | 3mm Thick x 32mm wide plate with letters "KITCHEN" | No | 2 |
| 9 | 3mm Thick x 32mm wide plate with letters "ABLUTIONS" | No | 2 |
| 10 | 3mm Thick x 32mm wide plate with letters "STORE" | No | 2 |
| 11 | 3mm Thick x 32mm wide plate with letters "PARAPLEGIC/STAFF WC" | No | 2 |
| 12 | 3mm Thick x 32mm wide plate with letters "SICK ROOM" | No | 2 |

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LETTERS, NAMEPLATES, ETC

"Union" or equal approved

13	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	2
14	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	2
15	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	2
16	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	2
17	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1

BATHROOM FITTINGS

"CTM" or equal approved

18	145 x 75mm Surface mounted polished stainless steel toilet roll holder plugged	No	6
19	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	4
20	304 x 100 x 134mm high Manually operated surface mounted stainless steel vandal and theft free soap dispenser with spindle system	No	4

"Chairman Industries" or equal approved

21	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	2
22	750 long x 80mm Projecting stainless steel straight grab rail fixed in position	No	2
23	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	2

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MATS

Squeegee or equal approved

24	1000 x 1000 x 17mm thick floor dust trap mat glued onto screed in and including mat surround fixed with 25 x 25mm aluminium angle plugged to concrete.	No	4
----	--	----	---

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

25	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	4
----	---	----	---

PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

"Vitrex" or equal approved

26	Parrot Bulletin board aluminium frame or similar approved size 2400 x 1200mm fixed to brickwork. Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000.	No	16
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Chalkboards

27	Vitrex or similar approved Model 2100 standard vitreous enamel steel wall mounted educational range chalkboard, overall size 1200 mm high x 2400 mm wide, reference (2109), supplied complete with integral anodised aluminium chalk rail, fixing components and secured in position to brickwork at 1200mm height from FFL. Enamel steel chalkboard surface to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2). All chalkboards to comply with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein.	No	8
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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

1	Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall	No	4
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STEEL HANDRAILS, BALUSTRADES, ETC

Welded handrails fixed to steel support.

Welded balustrading

2	Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters	m	64
3	Extra over for L-intersection of horizontal balustrades	No	8
4	Extra over for flat closed end	No	12
5	80mm Expansion bolt	No	64

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PRESSED STEEL DOOR FRAMES

Double rebated pressed frames suitable for half brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

6	Frame for door size, 813 x 2 032mm high	No	14
7	Frame for door size, 1000 x 2 032mm high	No	2

Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

8	Frame for door size, 813 x 2 032mm high	No	4
---	---	----	---

MILD STEEL BURGLAR BARS

50 x 8mm steel flat bars fixed to brick walls detail as per Architectural drawings attached to these bills of quantities

9	Window size 533 x 654mm high	No	4
10	Window size 900 x 900mm high	No	8
11	Window size 1 000 x 1 200mm high	No	16

ALUMINIUM WINDOWS

Standard aluminium windows

12	Window size 533 x 654mm high (W03)	No	4
13	Window size 900 x 900mm high (W02)	No	8
14	Window size 1 000 x 1 200mm high (W01)	No	16

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ALUMINIUM DOOR LOUVRE

Door louvres, etc

Approved fixed louvre units screwed into timber frames

15	Purpose made louvre unit for 300 x 300mm high opening	No	4		
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Metalwork

REPAIRS AND RENOVATIONS

INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	624
5	On narrow widths	m2	40

EXTERNAL PLASTER

Cement plaster on concrete

6	On beams	m2	58
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CORNER PROTECTORS, DIVIDING STRIPS, ETC.

7	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	8
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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

0.6mm galvanised and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	220
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	32
3	Extra over 100x 100mm eaves gutter for stopped end	No	8

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4	100mm diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	144
5	Extra over 75mm dia. rainwater pipe for bend	No	64
6	Extra over 75mm rainwater pipe for shoe	No	32
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	70
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	80
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	70
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	70
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	14
12	Hard rock	m3	6
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	100
14	110mm Pipes laid in trenches (trenches elsewhere)	m	100
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	24
16	110mm Junction	No	24
17	110mm Access bend	No	24
18	110mm Access junction	No	24

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	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	10		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>Franke or equal approved</u>				
21	1200 x 650mm wide Single bowl soft edge stainless steel inset sink with basket strainer waste fittings. All items to be fully fitted with all necessary plumbing accessories.	No	2		
	<u>"Vaal" or equal approved</u>				
22	Mini WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	4		
23	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	2		
24	610 x 460mm Wall mounted paraplegic WHB with single or double holes. All items to be fully fitted with all necessary plumbing accessories	No	2		
25	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	8		
	<u>WASTE UNIONS, ETC</u>				
26	32mm Basin waste union	No	10		
27	38mm Bath or sink waste union	No	2		
	<u>TRAPS ETC</u>				
28	32-40mm Rubber deep seal P or S trap	No	12		
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TAPS, VALVES, ETC
Cobra Watertech or equal approved

29	Chrome plated sink mixer with aerated swivel outlet mounted on the sink. All items to be fully fitted with all necessary plumbing accessories.	No	2
30	15 mm CS-294CP "Capstan" or equal approved basin mixer with mounting kit, plug, chain, stay and basin waste	No	10
31	20mm Full way stop cock	No	18
32	15 x 350mm CP flexible connector	No	6

SANITARY PLUMBING
HDPE pipes

33	50mm Pipes	m	120
34	50mm Pipes chased into brick walls	m	100
35	110mm Pipes	m	140

Extra over HDPE pipes for fittings

36	50mm Bend	No	48
37	50mm Access bend	No	24
38	50mm Junction	No	24
39	50mm Access junction	No	20
40	110mm Bend	No	24
41	110mm Access bend	No	12
42	110mm Socket	No	12
43	110mm Junction	No	12

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44	110mm Reducing junction	No	12
45	110mm Access junction	No	12
46	110mm Two-way vent valve	No	12
47	110mm Pan connector	No	12

Sundries

48	Testing water sewer system		Item
----	----------------------------	--	------

WATER SUPPLIES

Class "O" copper pipes:

49	15mm Pipes chased in brickwork	m	120
50	22mm Pipes chased in brickwork	m	100
51	28mm Pipes	m	90

Extra over class "O" copper pipes for capillary fittings

52	15mm Fittings	No	60
53	22mm Fittings	No	40
54	28mm Fittings	No	20

Copper flexible service pipes

55	15mm Service pipe 340mm girth	No	2
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Testing of water system

56	Testing water pipe system		Item
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Sundries

57	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	1
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SLEEVES**HDPE sleeves for pipes not exceeding 100mm diameter**

58	Sleeve not exceeding 250mm long	No	2
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HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter

59	Sleeve not exceeding 250mm long	No	2
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ON FIBRE-CEMENT

Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643

4	On ceilings and cornices	m2	50
---	--------------------------	----	----

Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

5	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	100
---	--	----	-----

6	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	5
---	---	----	---

ON METAL

Prepare and apply two coats bitumen paint

7	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	80
---	---	----	----

Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

8	On pressed steel door frames	m2	80
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Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

9	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	362
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ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

10	On doors	m2	48
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Section 11: Classroom - Grade R

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Paintwork

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	172
---	----------	----	-----

Extra over excavations in earth for excavation in:

2	Soft rock	m3	17
---	-----------	----	----

3	Hard rock	m3	8
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	143
---	--	----	-----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	492
---	--	----	-----

Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Bill No. 1
 Earthworks (Provisional)
REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7 Backfilling to trenches, holes, etc m3 94

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8 Under floors, steps, pavings, etc m3 99

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9 Under floors, steps, pavings, etc m3 99

Coarse river sand filling supplied by the contractor

10 Under floors etc m3 17

Compaction of surfaces

11 Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density m2 330

Prescribed density tests on filling

12 "Modified AASHTO Density" test No 20

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13 Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming m2 330

14 To bottoms and sides of trenches, etc m2 590

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REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	2
---	----------	----	---

25 MPa Concrete in:

2	Aprons	m3	9
---	--------	----	---

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	87
---	---	---	----

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	4
---	-------	----	---

5	Footings	m3	29
---	----------	----	----

6	Surface beds	m3	42
---	--------------	----	----

7	Beams	m3	3
---	-------	----	---

8	Steps, urinal steps, cupboard platforms, etc	m3	3
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

9	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	20
---	---	----	----

MOVEMENT JOINTS, ETC**Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces**

10	10mm Joints exceeding 300mm high	m2	205
----	----------------------------------	----	-----

Saw cut joints

11	4 x 30mm Saw cuts in top of concrete	m	114
----	--------------------------------------	---	-----

CONCRETE SUNDRIES**Finishing top surfaces of concrete with wooden float finish**

12	Ramps, etc	m2	12
----	------------	----	----

13	Aprons, etc	m2	88
----	-------------	----	----

ROUGH FORMWORK (DEGREE OF ACCURACY II)**Rough formwork to sides**

14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	12
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SMOOTH FORMWORK**Smooth formwork to sides**

15	Soffits of beams	m2	4
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16	Sides of beams	m2	26
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 Concrete, Formwork and Reinforcement
REPAIRS AND RENOVATIONS

REINFORCEMENT
Mild tensile steel reinforcement to structural concrete work

17	10mm Diameter bars	t	1.00
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High tensile steel reinforcement to structural concrete work

18	12mm Diameter bars	t	1.00
----	--------------------	---	------

19	16mm Diameter bars	t	1.00
----	--------------------	---	------

Fabric reinforcement

20	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	330
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21	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	115
----	---	----	-----

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)

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

1	Half brick walls	m2	3
2	One brick walls	m2	203

SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

3	Piers	m3	1
4	Half brick walls	m2	6
5	One brick walls	m2	638

BRICKWORK SUNDRIES

Brickwork reinforcement

6	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	28
7	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	2,274

Concrete prestressed fabricated lintels

8	115 x 75mm Lintels in lengths not exceeding 3m	m	8
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	<u>Turning pieces</u>				
9	165mm Wide turning piece to lintels etc	m	30		
10	230mm Wide turning piece to lintels etc	m	37		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
11	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	87		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>				
12	Extra over brickwork for face brickwork	m2	286		
13	Extra over brickwork for face brickwork in foundation	m2	44		
14	Extra over brickwork for face brickwork in pier	m2	21		
15	Half brickwork in facings in beamfilling both sides pointed	m2	26		
16	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	10		
17	Fair raking cutting	m	24		
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
18	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	70		
19	Cut face brick-on-edge internal window cill, 115mm wide, set horizontal and flush in cement mortar and pointed on top and front edge	m	30		
20	Coping on top of one brick wall	m	37		
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Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	166		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	170		

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PROFILED METAL SHEETING AND ACCESSORIES

0,60mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	396
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	35

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Roof Coverings, etc

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Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

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**PREFABRICATED METAL CONNECTOR PLATE
TIMBER ROOF TRUSSES**

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

- 1 Science Laboratory Block EP approximately 330m² measured flat

Item

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- 2 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends

m

90

Tempered fibre-cement internal window sills

- 3 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations

m

24

SKIRTINGS

Wrought meranti

- 4 19 x 76mm Skirtings with 19mm quarter round nailed to walls

m

166

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

DOORS**NOTE:**

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

Wrought hardwood framed and batten doors hung to timber frames (elsewhere measured) of 108 x 40mm top rail and stiles, 144x 22mm middle ledge, 220 x 22mm bottom rail, filled with 76 x 22mm tongued and grooved V-jointed battens, with 50 x 50mm hardwood weather bar routed into bottom panel of door

5	40mm Single door, size 813 x 2032mm high	No	4
---	--	----	---

Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames

6	40mm Door 813 x 2032mm high	No	5
---	-----------------------------	----	---

Door grills, etc

Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)

7	300 x 300mm aluminium louvre	No	1
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Carpentry and Joinery

REPAIRS AND RENOVATIONS

INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|--|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brundering, etc, all as per manufacturers instructions | m2 | 330 |
|---|--|----|-----|

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|-----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood brundering at 400mm centres in one direction and around edges where required for fixing cornices, brundering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 262 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 2 |

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

- | | | | |
|---|---|----|----|
| 4 | Ceilings on 38 x 38mm brundering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 68 |
|---|---|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 205 |
|---|--------------------------------|---|-----|

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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SUNDRIES**Dorma or equal approved**

- | | | | |
|---|--|----|----|
| 5 | Stainless steel door stop type DDSS-SS-017 plugged | No | 10 |
|---|--|----|----|

NUMERAL AND NAME PLATES**Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws**

- | | | | |
|---|---|----|---|
| 6 | 3mm Thick x 32mm wide plate with letters "EQUIPMENT STORE" | No | 1 |
| 7 | 3mm Thick x 32mm wide plate with letters "CHEMICAL STORE" | No | 1 |
| 8 | 3mm Thick x 32mm wide plate with letters "SCIENCE LABORATORY" | No | 1 |

"Union" or equal approved

- | | | | |
|----|--|----|---|
| 9 | "Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol | No | 1 |
| 10 | "Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol | No | 1 |

STEEL CUPBOARDS**Approved steel lockers with standard baked enamel finish**

- | | | | |
|----|---|----|---|
| 11 | Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves | No | 2 |
|----|---|----|---|

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 Ironmongery

REPAIRS AND RENOVATIONS

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC****"Vitrex" or equal approved**

- | | | | |
|----|---|----|---|
| 12 | Parrot Bulletin board aluminium frame or similar approved size 2400 x 1200mm fixed to brickwork. Anodized Aluminium frame pinnable felt notice board with landscape orientation and concealed wall fixing kit included, colour: Laurel Grey, fabric type: Wool Felt with SABS Class 3 fire rating mounted at 1200mm height from FFL. Manufactured in accordance with SANS 1415:2005 all installed by approved installer in accordance with SANS 10186:2000. | No | 6 |
|----|---|----|---|

Chalkboards

- | | | | |
|----|--|----|---|
| 13 | Vitrex system enamelled green type writing chalkboard, with wall mounted centre board high with chalk rail size 1 140 x 1 800mm high plugged | No | 4 |
|----|--|----|---|

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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

1	Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc. size 813 x 2066mm high overall	No	3
---	--	----	---

STEEL HANDRAILS, BALUSTRADES, ETC

Welded handrails fixed to steel support.

2	Horizontal balustrades 900mm high formed of 50mm external diameter x 2.5mm thick continuous pipe handrail, 40 x 40mm Hollow section balusters at approximately 1300mm centres with one end welded to handrail and other end to 100 x 100 x 2.5mm thick foot plates bolted to concrete (bolts elsewhere), 40 x 10mm flat section top and bottom rail at 1000mm centres welded between balusters and 20mm diameter solid section vertical members welded between top and bottom rail at 100mm centres between balusters	m	45
3	Extra over for L-intersection of horizontal balustrades	No	6
4	Extra over for flat closed end	No	6
5	80mm Expansion bolt	No	42

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Metalwork

REPAIRS AND RENOVATIONS

PRESSED STEEL DOOR FRAMES

Double rebated pressed frames suitable for half brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

6	Frame for door size, 813 x 2 032mm high	No	9
---	---	----	---

STEEL WINDOWS ETC

Standard Mildsteel top-hung open out windows with and including 50 x 8mm flat burglar bars to fixed as per Architectural drawings attached to these bills of quantities

7	Window size 904 x 861mm high (W02)	No	4
---	------------------------------------	----	---

8	Window size 894 x 1 264mm high (W01)	No	26
---	--------------------------------------	----	----

ALUMINIUM DOOR LOUVRE

Door louvres, etc

Approved fixed louvre units screwed into timber frames

9	Purpose made louvre unit for 300 x 300mm high opening	No	1
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Metalwork

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Metalwork

REPAIRS AND RENOVATIONS

INTERNAL PLASTER**Cement plaster on brickwork**

4	On walls	m2	585		
5	On narrow widths	m2	18		

EXTERNAL PLASTER**Cement plaster on concrete**

6	On beams	m2	36		
---	----------	----	----	--	--

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

7	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	3		
---	---	---	---	--	--

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REPAIRS AND RENOVATIONS

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

R

Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

0.6mm galvanised and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	94
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	16
3	Extra over 100x 100mm eaves gutter for stopped end	No	4

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4	100mm diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	72
5	Extra over 75mm dia. rainwater pipe for bend	No	16
6	Extra over 75mm rainwater pipe for shoe	No	16
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	100
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	80
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	80
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	50
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	22
12	Hard rock	m3	10
<u>HDPE pipe</u>			
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>			
13	110mm Pipes laid in trenches (trenches elsewhere)	m	50
<u>Extra over HDPE pipes for fittings</u>			
14	110mm Bend	No	12
15	110mm Junction	No	12
16	110mm Access bend	No	12
17	110mm Access junction	No	12

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	<u>HDPE gulleys</u>		
18	110mm Gulley not exceeding 750mm deep	No	12
	<u>Sundries</u>		
19	Testing soil drainage system		Item
	<u>SANITARY FITTINGS</u>		
	<u>"Vaal" or equal approved</u>		
20	450 x 335mm 'Laboratory sink' Vaal Sanitaryware (colour white) (code 234500) fixed to desk using 2 adjustable under slung brackets (code 8109Z0)	No	11
	<u>WASTE UNIONS, ETC</u>		
21	32mm Basin waste union	No	250
	<u>TAPS, VALVES, ETC</u>		
	<u>Approved</u>		
22	Chrome plated approved laboratory mixer with aerated swivel outlet mounted on the sink. All items to be fully fitted with all necessary plumbing accessories.	No	11
23	20mm Full way stop cock	No	11
	<u>SANITARY PLUMBING</u>		
	<u>HDPE pipes</u>		
24	50mm Pipes	m	120
25	50mm Pipes chased into brick walls	m	100
26	110mm Pipes	m	40
	<u>Extra over HDPE pipes for fittings</u>		
27	50mm Bend	No	33
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REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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28	50mm Access bend	No	22
29	50mm Junction	No	22
30	50mm Access junction	No	22
31	110mm Bend	No	6
32	110mm Access bend	No	6
33	110mm Socket	No	6
34	110mm Junction	No	6
35	110mm Reducing junction	No	6
36	110mm Access junction	No	6
37	110mm Two-way vent valve	No	6

Sundries

38	Testing sewer pipe system		Item
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WATER SUPPLIES

Class "O" copper pipes:

39	15mm Pipes chased in brickwork	m	120
40	22mm Pipes chased in brickwork	m	80
41	28mm Pipes	m	45

Extra over class "O" copper pipes for capillary fittings

42	15mm Fittings	No	45
43	22mm Fittings	No	44
44	28mm Fittings	No	22

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

ON FIBRE-CEMENT

Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643

4	On ceilings and cornices	m2	68
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Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

5	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	55
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6	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	3
---	---	----	---

ON METAL

Prepare and apply two coats bitumen paint

7	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	33
---	---	----	----

Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

8	On pressed steel door frames	m2	16
---	------------------------------	----	----

9	On windows with burglar bars	m2	63
---	------------------------------	----	----

Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

10	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	100
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Bill No. 15

Paintwork

REPAIRS AND RENOVATIONS

ON WOOD**Prepare, stop and apply one coat wood primer and two coats PVA paint**

11	On doors	m2	17
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Prepare and apply three coats varnish

12	On doors	m2	10
----	----------	----	----

One coat pink wood primer and two coats clear polyurethane varnish

13	On skirtings, rails, etc. not exceeding 300mm girth	m	186
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REPAIRS AND RENOVATIONS

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	40
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	4
---	-----------	----	---

3	Hard rock	m3	2
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	42
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	134
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	22
---	-------------------------------------	----	----

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8	Under floors, steps, pavings, etc	m3	28
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	25
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Coarse river sand filling supplied by the contractor

10	Under floors etc	m3	4
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Compaction of surfaces

11	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	83
----	---	----	----

Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	15
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SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	83
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14	To bottoms and sides of trenches, etc	m2	143
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Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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Bill No. 1

Earthworks (Provisional)

REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	1
<u>25 MPa Concrete in:</u>			
2	Aprons	m3	4
3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc "Labour Intensive"	m	33

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	4
5	Footings	m3	8
6	Surface beds	m3	12

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Concrete, Formwork and Reinforcement
REPAIRS AND RENOVATIONS

TEST BLOCKS

- 7 Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)

No 15

MOVEMENT JOINTS, ETC

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

- 8 10mm Joints exceeding 300mm high

m2 43

Saw cut joints

- 9 4 x 30mm Saw cuts in top of concrete

m 15

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a power float

- 10 Ramps, etc

m2 6

- 11 Aprons, etc

m2 32

ROUGH FORMWORK (DEGREE OF ACCURACY II)**Rough formwork to sides**

- 12 Edges, risers, ends and reveals not exceeding 300mm high or wide

m 9

REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

- 13 10mm Diameter bars

t 0.50

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

High tensile steel reinforcement to structural concrete work

14	12mm Diameter bars	t	0.50
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15	16mm Diameter bars	t	0.50
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Fabric reinforcement

16	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	83
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17	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	27
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

1	One brick wall	m2	49
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SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

2	Piers	m3	2
---	-------	----	---

3	One brick walls	m2	116
---	-----------------	----	-----

BRICKWORK SUNDRIES

Brickwork reinforcement

4	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	445
---	---	---	-----

Turning pieces

5	230mm Wide turning piece to lintels etc	m	2
---	---	---	---

Galvanised hoop iron cramps, ties, etc

6	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	16
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FACE BRICKWORK

Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.

7	Extra over brickwork for face brickwork	m2	50
---	---	----	----

8	Extra over brickwork for face brickwork in foundations	m2	18
---	--	----	----

9	Extra over brickwork for face brickwork in beamfilling	m2	5
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Masonry

REPAIRS AND RENOVATIONS

10	One brick wall faced both sides	m2	53
11	Fair raking cutting	m	9
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>		
12	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	21
13	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	2
14	Coping on raking top of one brick wall	m	17

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Bill No. 3

Masonry

REPAIRS AND RENOVATIONS

JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	21
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	34

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Waterproofing
REPAIRS AND RENOVATIONS

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PROFILED METAL SHEETING AND ACCESSORIES

0,60mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2 Roof covering with pitch not exceeding 25 degrees m2 17

3 Ridge capping 562mm girth 3 times bent and notched to suit roof profile m 4

0,60mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to steel purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

4 Roof covering with pitch not exceeding 25 degrees m2 75

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Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Roof Coverings, etc

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Roof Coverings, etc

REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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REPAIRS AND RENOVATIONS

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

1 Pump rooms approximately 15m² each measured flat

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- 2 10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends

m

56

Tempered fibre-cement internal window sills

- 3 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations

m

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

- | | | | |
|---|--|----|----|
| 2 | Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood bandering at 400mm centres in one direction and around edges where required for fixing cornices, bandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 15 |
| 3 | Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery | No | 1 |

Cornices

- | | | | |
|---|--------------------------------|---|----|
| 4 | 76mm Gypsum coved trim cornice | m | 16 |
|---|--------------------------------|---|----|

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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NUMERAL AND NAME PLATES

Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed selftapping screws

5	3mm Thick x 32mm wide plate with letters "REFUSE YARD"	No	1
6	3mm Thick x 32mm wide plate with letters "PUMP HOUSE"	No	1

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 Bill No. 8
 Ironmongery

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Ironmongery

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Ironmongery

REPAIRS AND RENOVATIONS

R

Bolts, etc

3	M16 x 80mm grade 8.8	No	20
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4	M25 x 700mm ragbolt including nut and washer cast in exact position in top of concrete	No	32
---	--	----	----

STEEL PURLINS, GIRTS, BRACING, ETC

Purlins and girts bolted to steel

5	150 x 75 x 20 x 2.5mm lipped channel purlins	t	1.00
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STEEL GATES, SCREENS, ETC

The following in framed and welded mild steel security grille gates including fixing in position complete

- | | | | |
|---|--|----|---|
| 1 | Double gate and frame size 1 830 x 2 350mm high, frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate, 3 lever dead lock with forend and 147mm satin stainless steel foot operated telescopic door holder, etc (G01) | No | 2 |
|---|--|----|---|

STEEL SPIKES

150mm high "Anti-climb over" hot dipped stainless steel or equal approved saw tooth spikes bedded on top of brick work in 1:3 cement mortar

- | | | | |
|---|---|---|----|
| 2 | 150mm high steel spikes bedded in cement mortar | m | 20 |
|---|---|---|----|

PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES**Approved doors**

- | | | | |
|---|--|----|---|
| 3 | Double door size 1 840 x 2 100mm high, each leaf with 420 x 568mm high louvred ventilation panel and rebated frame suitable for one brick wall | No | 1 |
|---|--|----|---|

ALUMINIUM LOUVRE WINDOWS

Purpose made Wispeco or equal approved aluminium louvre fixed to brickwork

- | | | | |
|---|---------------------------------|----|---|
| 4 | Window size 1 500 x 1500mm high | No | 1 |
|---|---------------------------------|----|---|

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Metalwork

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**CORNER PROTECTORS, DIVIDING STRIPS,
ETC.**

- 4 40mm High brass or aluminium transition strip built into
screed between different floor finishes

m

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

0.6mm galvanised and industrial profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	16
2	Extra over 100 x 100mm thick eaves gutter for stopped end	No	4
3	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	24

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4	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	4		
5	Extra over 75mm rainwater pipe for bend	No	6		
6	Extra over 75 x 0.6mm rainwater pipe for shoe	No	6		
<u>SOIL DRAINAGE</u>					
7	Excavation not exceeding 1m deep for drain trenches	m3	12		
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	6		
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	6		
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	6		
<u>Extra over bulk excavation in earth for excavation in</u>					
11	Soft rock	m3	2		
12	Hard rock	m3	1		
<u>HDPE pipe</u>					
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>					
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	12		
14	110mm Pipes laid in trenches (trenches elsewhere)	m	6		
<u>Extra over HDPE pipes for fittings</u>					
15	110mm Bend	No	2		
16	110mm Junction	No	2		
17	110mm Access bend	No	1		
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18	110mm Access junction	No	1	
	<u>HDPE gulleys</u>			
19	110mm Gulley not exceeding 750mm deep	No	1	
	<u>Manhole Chamber</u>			
20	Manhole chamber size 1500 x 1500 x 1500mm deep to invert having 150mm thick mesh (Ref 395) reinforced 25 Mpa concrete beam including cover and frame, internal plastered 230mm brick wall including excavations, cart away, sand backfilling, reinforcement, etc (cover elsewhere)	No	1	
21	400 x 600mm cast iron grating and frame to SANS 1115 (Saint Gobian:product code 2892 or equal approved)	No	1	
	<u>Sundries</u>			
22	Testing soil drainage system		Item	
	<u>TAPS, VALVES, ETC</u>			
	<u>Cobra Watech or equal approved</u>			
23	15mm CP angle regulating valve	No	1	
24	20mm Full way stop cock	No	1	
25	22mm dia brass garden tape	No	1	
	<u>SANITARY PLUMBING</u>			
	<u>HDPE pipes</u>			
26	110mm Pipes in and including trenches	m	10	
	<u>Extra over HDPE pipes for fittings</u>			
27	110mm Bend	No	3	
	<u>Testing</u>			
28	Testing sewer pipe system		Item	
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WATER SUPPLIES**Class "O" copper pipes:**

29	22mm Pipes chased in brickwork	m	5
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Extra over class "O" copper pipes for capillary fittings

30	22mm Fittings	No	2
----	---------------	----	---

Copper flexible service pipes

31	15mm Service pipe 340mm girth	No	1
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Testing

32	Testing water pipe system		Item
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SLEEVES**HDPE sleeves for pipes not exceeding 100mm diameter**

33	Sleeve not exceeding 250mm long	No	1
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REPAIRS AND RENOVATIONS

ON METAL

Prepare and apply two coats bitumen paint

4	On inside of 150 x 150mm galvanised sheet iron eaves gutter before fixing	m2	6
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Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

5	On pressed steel door and frames	m2	10
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Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	16
---	--	----	----

7	On structural steel	m2	88
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ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

8	On doors	m2	7
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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	24
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	2
---	-----------	----	---

3	Hard rock	m3	1
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	20
---	--	----	----

Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	87
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7 Backfilling to trenches, holes, etc m3 13

Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

8 Under floors, steps, pavings, etc m3 4

Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

9 Under floors, steps, pavings, etc m3 3

Coarse river sand filling supplied by the contractor

10 Under floors etc m3 1

Compaction of surfaces

11 Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density m2 8

Prescribed density tests on filling

12 "Modified AASHTO Density" test No 5

SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

13 Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming m2 8

14 To bottoms and sides of trenches, etc m2 85

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REPAIRS AND RENOVATIONS

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Blinding	m3	2
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25 MPa Concrete in:

2	Aprons	m3	1
---	--------	----	---

3	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	13
---	---	---	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	1
---	-------	----	---

5	Footings	m3	4
---	----------	----	---

6	Surface beds	m3	2
---	--------------	----	---

25MPa/19mm concrete

7	Slabs	m3	1
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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

TEST BLOCKS

- 8 Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)

No

5

MOVEMENT JOINTS, ETC

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

- 9 10mm Joints exceeding 300mm high

m2

15

Saw cut joints

- 10 4 x 30mm Saw cuts in top of concrete

m

13

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

- 11 Ramps, etc

m2

4

- 12 Aprons, etc

m2

13

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to soffits

- 13 Slabs propped up exceeding 1.5 and not exceeding 3.5m high

m2

2

Rough formwork to sides

- 14 Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high

m2

15

- 15 Edges, risers, ends and reveals not exceeding 300mm high or wide

m

17

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

REINFORCEMENT**Mild steel reinforcement to structural concrete work**

16	10mm Diameter bars	t	1.00		
----	--------------------	---	------	--	--

High tensile steel reinforcement to structural concrete work

17	16mm Diameter bars	t	1.00		
----	--------------------	---	------	--	--

Fabric reinforcement

18	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	8		
----	--	----	---	--	--

19	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	16		
----	---	----	----	--	--

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Concrete, Formwork and Reinforcement

REPAIRS AND RENOVATIONS

Samples

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

FOUNDATIONS (PROVISIONAL)**Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar**

1	Half brick walls	m2	3
2	One brick walls	m2	20
3	460mm thick brick walls	m2	8

SUPERSTRUCTURE**Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar**

4	Piers	m3	2
5	Half brick walls	m2	6
6	One brick walls	m2	36
7	460mm thick solid brick walls	m2	24

BRICKWORK SUNDRIES**Brickwork reinforcement**

8	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	15
9	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	112

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	<u>Concrete prestressed fabricated lintels</u>				
10	115 x 75mm Lintels in lengths not exceeding 3m	m	1		
	<u>Turning pieces</u>				
11	230mm Wide turning piece to lintels etc	m	5		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
12	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	13		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>				
13	Extra over brickwork for face brickwork	m2	36		
14	Extra over brickwork for face brickwork in foundation	m2	7		
15	Half brickwall beam filling in facings in pointed both sides	m2	5		
16	460mm thick brick wall faced both sides	m2	24		
17	Fair raking cutting	m	4		
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
18	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	5		
19	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	5		
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JOINT SEALANTS, ETC

**Two-part grey poly sulphide sealing compound
applied with a caulking gun, including backing cord,
bond breaker, primer, etc**

3	3 x 30mm In saw cut joints in floors	m	5
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	17

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Waterproofing
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PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Approved Klip-lock profile galvanised sheet steel coated outside and galvanised finish inside finish in single lengths fixed to timber purlins or rails and 0,60mm approved galvanised sheet steel accessories with silicon polyester finish on one side

2	Roof covering with pitch not exceeding 25 degrees	m2	10
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	4

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 Roof Coverings, etc
REPAIRS AND RENOVATIONS

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Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.

c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.

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e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.

g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001

i. All workshop drawings must be provided to the engineer for approval before fabrication

j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences

k. All timber to be treated in accordance with SABS 05

l. All exposed timber to be treated with carbolineum

m. All roof timber to be treated with fire retardant paint

PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES

Complete prefabricated timber roof trusses with a pitch not exceeding 25 degree pitch including all necessary hoisting labour, timber for bracing, purlins, wall plates, beams, gang boards, certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.

1 Guard Houses approximately 8m² measured flat

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FASCIAS AND BARGE BOARDS

Nutec board or equal approved

2	10 x 225mm thick Approved medium density nutec fascia/barge boards fixed to 38 x 38mm timber battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at boards ends	m	15		
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DOORS

NOTE:

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.

Wrought hardwood framed and batten doors hung to GMS frame (elsewhere measured) of 108 x 40mm top rail and stiles, 144x 22mm middle ledge, 220 x 22mm bottom rail, filled with 76 x 22mm tongued and grooved V-jointed battens, with 50 x 50mm hardwood weather bar routed into bottom panel of door

3	40mm Single door, size 813 x 2125mm high	No	1		
	<u>Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames</u>				
4	40mm Door 813 x 2032mm high	No	1		

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Tempered fibre-cement internal window sills

- 5 150 x 15mm thick internal window sill installed below window with sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in class II mortar with plastic slip joints at end at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations

m

5

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Bill No. 6
Carpentry and Joinery
REPAIRS AND RENOVATIONS

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Bill No. 6

Carpentry and Joinery

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Carpentry and Joinery

REPAIRS AND RENOVATIONS

Fibreglass insulation

- 1 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of bracing, etc, all as per manufacturers instructions

m2

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Bill No. 7
Ceilings, Partitions and Access Flooring
REPAIRS AND RENOVATIONS

NAILED UP CEILINGS**6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster**

2	Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood bandering at 400mm centres in one direction and around edges where required for fixing cornices, bandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer	m2	8
3	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	1

Cornices

4	76mm Gypsum coved trim cornice	m	17
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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

REPAIRS AND RENOVATIONS

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6 900 x 125mm Polished double towel rail fitted as per manufacturer's instructions

No

1

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Ironmongery
REPAIRS AND RENOVATIONS

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Ironmongery

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Ironmongery

REPAIRS AND RENOVATIONS

R

MILD STEEL BURGLAR BARS

50 x 8mm steel flat bars fixed to brick walls detail as per Architectural drawings attached to these bills of quantities

3	Window size 590 x 1 650mm high	No	1
4	Window size 650 x 950mm high	No	2
5	Window size 2220 x 1 650mm high	No	1

ALUMINIUM WINDOWS

Standard aluminium windows

6	Window size 590 x 1 650mm high	No	1
7	Window size 650 x 950mm high	No	2
8	Window size 2220 x 1 650mm high	No	1

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Metalwork

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Section 14: Guard House

Bill No. 9

Metalwork

REPAIRS AND RENOVATIONS

R

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Lead pipes and fittings

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

Reducing fittings

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

R

Stainless steelbasins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

User note:

Please note the rate for butt welding is deemed to be included in all fittings

RAINWATER DISPOSAL

GUTTERS, DOWNPIPES, ETC.

0.6mm galvanised and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc

1	100 x 100mm eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	8
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	4
3	Extra over 100x 100mm eaves gutter for stopped end	No	4

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REPAIRS AND RENOVATIONS

4	100mm diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	16		
5	Extra over 75mm dia. rainwater pipe for bend	No	4		
6	Extra over 75mm rainwater pipe for shoe	No	4		
<u>SOIL DRAINAGE</u>					
7	Excavation not exceeding 1m deep for drain trenches	m3	4		
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	2		
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	4		
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	2		
<u>Extra over bulk excavation in earth for excavation in</u>					
11	Soft rock	m3	2		
12	Hard rock	m3	1		
<u>HDPE pipe</u>					
<u>Supply mains pipe, bed, lay joint, bed and test sewer pipes with thermal welded joints:</u>					
13	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	10		
14	110mm Pipes laid in trenches (trenches elsewhere)	m	10		
<u>Extra over HDPE pipes for fittings</u>					
15	110mm Bend	No	2		
16	110mm Junction	No	2		
17	110mm Access bend	No	1		
18	110mm Access junction	No	1		
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	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	1		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>"Vaal" or equal approved</u>				
21	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	1		
22	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" heavy duty toilet seat	No	1		
	<u>WASTE UNIONS, ETC</u>				
23	32mm Basin waste union	No	1		
	<u>Approved</u>				
24	15mm CP angle regulating valve	No	2		
25	15 x 350mm CP flexible connector	No	1		
26	15mm Cobra or equal approved star basin tap	No	1		
27	20mm Full way stop cock	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>HDPE pipes</u>				
28	50mm Pipes	m	2		
29	50mm Pipes chased into brick walls	m	3		
30	110mm Pipes	m	2		
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Extra over HDPE pipes for fittings

31	50mm Bend	No	2
32	50mm Access bend	No	2
33	50mm Junction	No	2
34	50mm Access junction	No	1
35	110mm Bend	No	1
36	110mm Access bend	No	1
37	110mm Socket	No	1
38	110mm Junction	No	1
39	110mm Reducing junction	No	1
40	110mm Access junction	No	1
41	110mm Two-way vent valve	No	1
42	110mm Pan connector	No	1

Sundries

43	Testing water pipe system		Item
----	---------------------------	--	------

WATER SUPPLIES
Class "O" copper pipes:

44	15mm Pipes chased in brickwork	m	4
45	22mm Pipes chased in brickwork	m	5
46	28mm Pipes	m	2

Extra over class "O" copper pipes for capillary fittings

47	15mm Fittings	No	3
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Plumbing and Drainage (Provisional)
REPAIRS AND RENOVATIONS

REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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48	22mm Fittings	No	3		
49	28mm Fittings	No	2		
	<u>Copper flexible service pipes</u>				
50	15mm Service pipe 340mm girth	No	1		
	<u>SLEEVES</u>				
	<u>HDPE sleeves for pipes not exceeding 100mm diameter</u>				
51	Sleeve not exceeding 250mm long	No	1		
	<u>HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>				
52	Sleeve not exceeding 250mm long	No	1		
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Plumbing and Drainage (Provisional)

REPAIRS AND RENOVATIONS

ON METAL

Prepare and apply two coats bitumen paint

- | | | | |
|---|---|----|---|
| 4 | On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing | m2 | 5 |
|---|---|----|---|

Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

- | | | | |
|---|---------------------------------------|----|---|
| 5 | On pressed steel door and door frames | m2 | 3 |
|---|---------------------------------------|----|---|

Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

- | | | | |
|---|--|----|----|
| 6 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 12 |
|---|--|----|----|

ON WOOD

Prepare and apply three coats varnish

- | | | | |
|---|-----------------|----|---|
| 7 | On timber doors | m2 | 4 |
|---|-----------------|----|---|

Prepare, stop and apply one coat wood primer and two coats PVA paint

- | | | | |
|---|----------|----|---|
| 8 | On doors | m2 | 4 |
|---|----------|----|---|

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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Drawings

The references given in the descriptions are to the respective fittings detailed on the drawings accompanying these bills of quantities for tender purposes

PARTICLE BOARD

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

DECORATIVE LAMINATE FINISH

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

CONSTRUCTION

Construction of fittings shall be generally of wood, screwed and glued with pelleted heads where visible. All materials used must be of the best quality fabricate approved by the Representative / Agent and all the units to be finished neat and true prior to installation and finishing

DOORS TO FITTINGS

Sizes of doors and drawers are approximate. Correct sizes must be taken from the fittings concerned

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Section 15: Joinery Fittings
Bill No. 1
Joinery Fittings
REPAIRS AND RENOVATIONS

R

THE FOLLOWING IN HOD, BLOCK F AND D CLASSROOMS**Furniture****Teacher's classroom desk with one drawer both sides**

- 1 1611 x 910 x 750mm high table top (21mm thick solid hardwood), drawers manufactured from matching 16mm thick substrate veneer board, all edges sealed with matching veneer. 21mm solid Saligna Hardwood drawer fronts, both drawers lockable with an approved lock and handle. Provide knock-down 'risma' fitting. All timber components to be varnished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1998

No

3

Upholstered chair without arms

- 2 Approved seat and back foam (seat foam minimum 23kg/m³, (back foam minimum 16kgm³) and upholstery (100%polypropylene - contract quality), all foam to be glued onto 16mm particle board. Stackable steel frame assembly to be 22,23x1,2mm square tubing with baked black epoxy/polyester powder coating finish. Seat fitted to steel frame with approved screws and back fitted to steel frame with bolts and T nuts. Chairs to comply with SANS/SABS 1244: 1979.

No

34

Double combination desk

- 3 Desk to be made of: 21mm thick solid saligna hardwood (top = 1200 x 400mm, front beneath top = 1200 x 250mm, seat = 1200 x 225mm). All timber components to be varnished with two coats of acid catalysed lacquer and be safely left to dry up before fixed to steel frame. Main steel frame to be Ø31,7x0,6mm thick tubing, seat support steel rail to be Ø15,88x1,2mm thick tubing. All tubing to be completed with steel frame baked light grey epoxy/polyester powder coating finish. durable plugs to be fitted to all openings of steel frame. Fit all timber components to steel frame with the approved M5/M5 bolts and mylock nuts. NOTE: All desks to comply with SANS 880: 2004.

No

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Joinery Fittings

REPAIRS AND RENOVATIONS

Desk with 2 drawers

- 4 1200 x 700 x 750mm high table top (21mm thick solid hardwood) fitted with approved screws to steel frame. Modesty panel and drawer box carcass manufactured from matching 16mm substrate veneer board with all edges sealed with matching veneer. Frame to be 32x1.6mm thick square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all leg ends. Drawer fronts to be 21mm solid Saligna Hardwood, top drawer to be lockable with the approved locks. Provide approved drawer handles and drawer slides. Provide knock-down 'prisma' fitting. Modesty panel to be secured to steel frame with 4.8x27mm large flange pop reverts. All timber components to be vanished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1918 (EDITION 1.1)

No

3

Upholstered Side Chair With Arms

- 5 Approved seat and back foam (Seat foam minimum 23kg/m³) (Back foam minimum 16kg/m³) and upholstery (100% polypropylene - contract quality), foam to be glued onto 16mm particle board. Stackable steel frame assembly to be 22,23x1,2mm square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all open steel ends Seat fitted to steel frame with approved screws and back fixed to steel frame with bolts and T nuts. Approved arm rests to be fitted to steel frame. Chairs to comply with SANS/SABS 1244: 1979.

No

3

THE FOLLOWING IN GRADE R CLASSROOM BLOCK
Purpose made

- 6 Sink cupboard size 1207 x 500 x 900mm high with and including 32mm thick laminated saligna top, sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)

No

2

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Joinery Fittings

REPAIRS AND RENOVATIONS

7	Sink cupboard size 1160 x 500 x 900mm high with and including 32mm thick laminated saligna top, sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)	No	2		
8	Grade R - 1100 x 332 x 1866mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc as per Architect	No	2		
9	Grade R - 1100 x 332 x 1400mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc as per Architect	No	2		
10	2052 x 500 x 400mm high bench complete and including 25mm thick Saligna seat, filler pieces, angle irons, expansion bolts, steel frame, paint etc.	No	2		
	<u>Wrought laminated saligna and finished as follows:</u> <u>One coat 10% diluted and 2 coats undiluted polyurethane acid resistant varnish</u>				
11	32mm thick top	m2	4		
12	Extra over for cutting an opening in 32mm worktop to suit 1200 x 535mm drop in type stainless steel sink (elsewhere)	No	2		
	<u>Aluminium skirting</u>				
13	100mm natural anodised aluminium skirting plugged	m	6		
Carried to Collection					R
Section No. 15 Section 15: Joinery Fittings Bill No. 1 Joinery Fittings REPAIRS AND RENOVATIONS					

Furniture**Teacher's classroom desk with one drawer both sides**

- | | | | |
|----|---|----|---|
| 14 | 1611 x 910 x 750mm high table top (21mm thick solid hardwood), drawers manufactured from matching 16mm thick substrate veneer board, all edges sealed with matching veneer. 21mm solid Saligna Hardwood drawer fronts, both drawers lockable with an approved lock and handle. Provide knock-down 'risma' fitting. All timber components to be varnished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1998 | No | 8 |
|----|---|----|---|

Upholstered chair without arms

- | | | | |
|----|--|----|---|
| 15 | Approved seat and back foam (seat foam minimum 23kg/m ³), (back foam minimum 16kgm ³) and upholstery (100%polypropylene - contract quality), all foam to be glued onto 16mm particle board. Stackable steel frame assembly to be 22,23x1,2mm square tubing with baked black epoxy/polyester powder coating finish. Seat fitted to steel frame with approved screws and back fitted to steel frame with bolts and T nuts. Chairs to comply with SANS/SABS 1244: 1979. | No | 8 |
|----|--|----|---|

Grade R Polypropylene Chair

- | | | | |
|----|---|----|----|
| 16 | Grade R Polypropylene Chair with metals legs, Blue, 325mm H | No | 84 |
| 17 | Grade R Polypropylene Chair with metals legs, Orange, 325mm H | No | 84 |
| 18 | Grade R Polypropylene Chair with metals legs, Red 325mm H | No | 88 |

Grade R 8 Seater white coating Supawood Table

- | | | | |
|----|--|----|----|
| 19 | Grade R 8 Seater white coating Supawood Table. Table height to be 500mm. | No | 32 |
|----|--|----|----|

External Furniture

- | | | | |
|----|---------------------------------------|----|---|
| 20 | Playground climbing stairs with wings | No | 2 |
|----|---------------------------------------|----|---|

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Joinery Fittings

REPAIRS AND RENOVATIONS

21	Slides	No	4
22	Playground system	No	2
<u>THE FOLLOWING IN NUTRITIONAL CENTRE BLOCK</u>			
<u>Purpose made</u>			
23	Vanity cupboard size 22160 x 500 x 900mm high with and including 32mm thick laminated saligna top, sides, bottom, divisions, shelf, back and double hinged doors (basin elsewhere)	No	1
24	Store shelving - 16440mm long x 500mm wide x 2000mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc	No	1
<u>Wrought laminated saligna and finished as follows:</u> <u>One coat 10% diluted and 2 coats undiluted polyurethane acid resistant varnish</u>			
25	32mm thick top	m2	12
26	Extra over for cutting an opening in 32mm worktop to suit 450 x 500mm drop in basin (elsewhere)	No	3
<u>Aluminium skirting</u>			
27	100mm natural anodised aluminium skirting plugged	m	10
<u>Furniture</u>			
<u>6 or 3 Seater Supawood Cradle Stand Table</u>			
28	Alpine or similar approved S8CR (1800 x 750mm), 16mm thick varnished Supawood (MDF) Top. 50mm Steel sections cradle stand with baked light grey polyester/epoxy powder coating finish. Table height to be 750mm.	No	12
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R

Stackable Student Chair (Grade 7-12)

29	Seat injection moulded polypropylene copolymer (Ref. 2.1.8) Orange. Steel frame Ø19x1.6mm baked light grey polyester/epoxy powder coating (Ref. 2.1.18/19). Adjustable by means of a spindle fitted into a tapered bush, Nylon plugs to all leg ends (Ref. 2.1.20). Seat fasten with tampered proof screws to seat frame.	No	105
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THE FOLLOWING IN SCIENCE LABORATORY BLOCK**Purpose made**

30	8761 x 820 x 900mm high worktop complete and including 32mm laminated saligna worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, drawers, doors, ironmongery, varnish, etc	No	1
31	14743 x 820 x 900mm high worktop complete and including 32mm laminated saligna worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish, etc	No	1
32	Store shelving - 10 780mm long x 500mm wide x 200mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc	No	1

**Wrought laminated saligna and finished as follows:
One coat 10% diluted and 2 coats undiluted
polyurethane acid resistant varnish**

33	32mm thick top	m2	20
----	----------------	----	----

Aluminium skirting

34	100mm natural anodised aluminium skirting plugged	m	20
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 Joinery Fittings
REPAIRS AND RENOVATIONS

Furniture**3 Division Correspondence Rank**

- | | | | |
|----|--|----|---|
| 35 | Carcass (Bottom, Sides, Back and Division)
Manufactured from double sided melamine faced (Natural Oak) 12mm thick particle board, all edges sealed with PVC edging. Correspondence rack to comply with SABS 1528-3:1992 | No | 1 |
|----|--|----|---|

Lower Back Typist Chair with 5 Star Base

- | | | | |
|----|--|----|---|
| 36 | Approved seat and back foam (Seat 45mm thick minimum 23kg/m ³), (Back 25mm thick minimum 16kg/m ³) and upholstery (100% polypropylene - contract quality), foam to be glued onto ± 11mm shaped plywood seat and back. Seat and back fitted with bolts & t-nuts to steel frame. Chair to be gas height adjustable spindle. 5 star reinforced nylon base with durable castors, chair to comply with SANS/SABS 1244;1979. | No | 1 |
|----|--|----|---|

Desk with 2 drawers

- | | | | |
|----|---|----|---|
| 37 | 1200 x 700 x 750mm high table top (21mm thick solid hardwood) fitted with approved screws to steel frame. Modesty panel and drawer box carcass manufactured from matching 16mm substrate veneer board with all edges sealed with matching veneer. Frame to be 32x1.6mm thick square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all leg ends. Drawer fronts to be 21mm solid Saligna Hardwood, top drawer to be lockable with the approved locks. Provide approved drawer handles and drawer slides. Provide knock-down 'prisma' fitting. Modesty panel to be secured to steel frame with 4.8x27mm large flange pop reverts. All timber components to be vanished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1918 (EDITION 1.1) | No | 1 |
|----|---|----|---|

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Section 15: Joinery Fittings

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Joinery Fittings

REPAIRS AND RENOVATIONS

Stackable student chair (Grade R-7)

38	Seat injection moulded polypropylene copolymer (Ref 2.1.8) Orange. Steel frame dia 19 x 16mm backed light grey polyester/epoxy powder coating (Ref 2.1.18/19). Adjustable by means of a spindle fitted into a tapered bush, nylon plugs to all leg ends (Ref 2.1.20). Seat fasten with tampered proof screws to seat frame.	No	30
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THE FOLLOWING IN ADMINISTRATION BLOCK
Purpose made

39	Sink cupboard unit size 1 500 x 500 x 900mm high with and including 32mm thick laminated saligna top, sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)	No	1
40	3 000 x 500 x 882mm high bench complete and including 25mm thick Saligna seat, filler pieces, angle irons, expansion bolts, steel frame, paint etc.	No	1
41	6 000 x 820 x 900mm high worktop complete and including 32mm laminated saligna worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish, etc as per Architect drawing	No	1
42	Floor cupboard unit size 3 000 x 500 x 900mm high with and including 32mm thick laminated saligna top, sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)	No	1
43	Store shelving - 14 000mm long x 500mm wide x 2 200mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc as per Architect drawing	No	1

**Wrought laminated saligna and finished as follows:
One coat 10% diluted and 2 coats undiluted
polyurethane acid resistant varnish**

44	32mm thick top	m2	13
----	----------------	----	----

Carried to Collection

R

Section No. 15
Section 15: Joinery Fittings
Bill No. 1
Joinery Fittings
REPAIRS AND RENOVATIONS

45	Extra over for cutting an opening in 32mm worktop to suit 1200 x 535mm drop in type stainless steel sink (elsewhere)	No	1		
	<u>Aluminium skirting</u>				
46	100mm natural anodised aluminium skirting plugged	m	13		
Carried to Collection					R
Section No. 15					
Section 15: Joinery Fittings					
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Joinery Fittings					
REPAIRS AND RENOVATIONS					

Furniture**Desk with 2 drawers**

47	1200 x 700 x 750mm high table top (21mm thick solid hardwood) fitted with approved screws to steel frame. Modesty panel and drawer box carcass manufactured from matching 16mm substrate veneer board with all edges sealed with matching veneer. Frame to be 32x1.6mm thick square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all leg ends. Drawer fronts to be 21mm solid Saligna Hardwood, top drawer to be lockable with the approved locks. Provide approved drawer handles and drawer slides. Provide knock-down 'prisma' fitting. Modesty panel to be secured to steel frame with 4.8x27mm large flange pop reverts. All timber components to be vanished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1918 (EDITION 1.1)	No	3
48	1200 x 600 x 750mm high table top (21mm thick solid hardwood) fitted with approved screws to steel frame. Modesty panel and drawer box carcass manufactured from matching 16mm substrate veneer board with all edges sealed with matching veneer. Frame to be 32x1.6mm thick square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all leg ends. Drawer fronts to be 21mm solid Saligna Hardwood, top drawer to be lockable with the approved locks. Provide approved drawer handles and drawer slides. Provide knock-down 'prisma' fitting. Modesty panel to be secured to steel frame with 4.8x27mm large flange pop reverts. All timber components to be vanished with two coats of acid catalyzed lacquer. Desk to comply with SABS 1528-2:1918 (EDITION 1.1)	No	24

Carried to Collection**R**

Section No. 15

Section 15: Joinery Fittings

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Joinery Fittings

REPAIRS AND RENOVATIONS

Upholstered Side Chair With Arms

- 49 Approved seat and back foam (Seat foam minimum 23kg/m³) (Back foam minimum 16kg/m³) and upholstery (100% polypropylene - contract quality), foam to be glued onto 16mm particle board. Stackable steel frame assembly to be 22,23x1,2mm square tubing with baked black epoxy/polyester powder coating finish, durable plugs fitted to all open steel ends Seat fitted to steel frame with approved screws and back fixed to steel frame with bolts and T nuts. Approved arm rests to be fitted to steel frame. Chairs to comply with SANS/SABS 1244: 1979.

No

2

Lower Back Typist Chair with 5 Star Base

- 50 Approved seat and back foam (Seat 45mm thick minimum 23kg/m³), (Back 25mm thick minimum 16kg/m³) and upholstery (100% polypropylene - contract quality), foam to be glued onto ± 11mm shaped plywood seat and back. Seat and back fitted with bolts & t-nuts to steel frame. Chair to be gas height adjustable spindle. 5 star reinforced nylon base with durable castors, chair to comply with SANS/SABS 1244;1979.

No

4

High Back Swivel and Tilt Chair with 5 Star Base

- 51 Approved seat and back foam (Seat foam 50mm thick minimum 23kg/m³) (Back foam 40mm thick minimum 16kg/m³) and upholstery (100% polypropylene - contract quality), foam to be glued onto ±11mm shaped plywood seat and back. Steel frame to be Ø25.4 x 1,6mm steel tubing with baked black epoxy/polyester powder coating finish. Durable plugs fitted to all open steel ends, approved arm rests fitted to steel frame, seat and back fitted to steel frame with bolts and T-nuts. Chair to have swivel and tilt mechanism and be gas height adjustable spindle. Chair to have (5) star reinforced nylon base with durable castors, chair to comply with SABS 1528-1:1992

No

3

Carried to Collection

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Section No. 15

Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS AND RENOVATIONS

Upholstered chair without arms

- 52 Approved seat and back foam (seat foam minimum 23kg/m³), (back foam minimum 16kgm³) and upholstery (100% polypropylene - contract quality), all foam to be glued onto 16mm particle board. Stackable steel frame assembly to be 22,23x1,2mm square tubing with baked black epoxy/polyester powder coating finish. Seat fitted to steel frame with approved screws and back fitted to steel frame with bolts and T nuts. Chairs to comply with SANS/SABS 1244: 1979.
- No 35

Principal Desk with three drawers fitted on right hand side

- 53 1611 x 910 x 750mm high desk, top to be post-formed 180° decorative melamine natural oak with balancing laminated on 32mm substrate particle board. Side and front panels to be modesty double sided melamine natural oak faced 16mm particle boards. Desk to have drawer box with 3 drawers, top drawer to have pencil try and be lockable with approved lock. Drawers to have metal drawer runners and drawer handles to be made to match the desk. All edges to be sealed with matching PVC edgings. Top edges to have minimum 2mm thick edgings. Desk to comply with SABS 1528-2:1996
- No 3

Filling rack pigeon hole 30 rack.

- 54 890 x 400 x 1435mm LP. Laminate: Double Decor with 16mm substrate. 6.4mm shelves and 3.2mm back panel recessed into top and sides (in hardboard). All exposed edges o be edged with mathcing laminate.
- No 3

Two door steel stationery cupboard with adjustable shelves

- 55 C1800 x 900 x 450mm double door lockable stationery steel cupboard with 4 steel shelves fixed to wall with 60mm M8 coach screws, 60mm wall plugs to be provided. Insert screws with steel M8x25mm washers to drilled holes at the back of steel cupboard. Screw steel cupboard to wall plug fitted to wall drilled holes. Colour: Hammertone Grey.
- No 1

Carried to Collection**R**

Section No. 15

Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS AND RENOVATIONS

3 Division Correspondence Rank

- | | | | |
|----|--|----|---|
| 56 | Carcass (Bottom, Sides, Back and Division)
Manufactured from double sided melamine faced (Natural Oak) 12mm thick particle board, all edges sealed with PVC edging. Correspondence rack to comply with SABS 1528-3:1992 | No | 5 |
|----|--|----|---|

Wooden Glazed Door Bookcase With 3 shelves

- | | | | |
|----|---|----|---|
| 57 | Carcass (Top, Bottom, Sides, and Adjustable Shelves)
Manufactured from 16mm substrate veneer board (colour to match image), all edges sealed with matching veneer. Door frame assembles, fixed shelf and base manufactured from 21mm solid saligna hardwood, back to be 3.2mm hardbaord. All timber components to be varnished with two coats of catalyzed lacquer finish. 3mm clear float glass to be fitted to door frames. Bookcase to comply with SABS 1528-3:1992 | No | 3 |
|----|---|----|---|

Filling Cabinet 4 Drawers

- | | | | |
|----|--|----|---|
| 58 | Top to be melamine faced Oak laminate and balancing backer laminated to a 32mm substrate board. Carcass (Sides, Bottom, Rails, and drawer fronts (Natural Oak) 16mm thick particle board, edges sealed with matching pvc edging , top edges to have at least 2mm thick pvc edging. Back manufactured from double sided melamine faced 12mm particle board. Drawers to have approved locks. Drawer carcass manufactured from double sided melamine faced 16mm particle board, edges to be sealed with matching pvc edging, A4 pocket folders must fit in drawer in a hanging position. Provide approved handle and metal drawer runners. Cabinet to comply with SABS 1528-3:1992. | No | 3 |
|----|--|----|---|

Desk Connecting Corner Piece

- | | | | |
|----|--|----|---|
| 59 | Top postedrewed (180°) decorative melamine colour (Natural Oak) and balancing backer laminated onto a 32mm particle board. Edges to be sealed with matching pvc edging (at least 2mm thick). Approved fixing method to desk and side tables. Connecting corner piece must comply with SABS 1528-2:1998 | No | 1 |
|----|--|----|---|

Carried to Collection**R**

Section No. 15

Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS AND RENOVATIONS

4 Seater Supawood Round Center Pedestal Table

- 60 Alpine or similiar approved S4R (800 diameter), 16mm thick varnished Supawood (MDF) Top. 50mm Steel center pedestal with levelling device and with baked light grey polyester/epoxy powder coating finish. Table height to be 750mm.

No

1

Steel Frame Single Bed

- 61 910 x 1910 x 770mm Single frame single bed with 1919 x 910 x 150mm plastic foam sponge mattress, stitch-bond pvc cover made to SABS standards

No

2

Carried to Collection

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Section No. 15

Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS AND RENOVATIONS

Section No. 15

Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

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Section 15: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS AND RENOVATIONS

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		<u>SECTION NO. 16</u>				
		<u>BILL NO. 2</u>				
		<u>BULK EARTHWORKS</u>				
		<u>PREAMBLES</u>				
		For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
	SANS 1200D	<u>BULK EARTHWORKS</u>				
		<u>PLATFORMS</u>				
1	8.3.1.2	Remove topsoil to depths between 100mm and 150mm cut to spoil (rate to include overhaul)	m3	900		
2	8.3.2a	Excavate in soft material and place directly to fill	m3	900		
3	8.3.2a	Excavate in soft material cut to spoil (rate to include overhaul)	m3	900		
4		Import G5 quality material and compacted to 98% Mod AASHTO in 150mm layers	m3	1,044		
5	8.3.2b	Extra Over for items 8.3.2a for excavation in hard material	m3	90		
6	8.3.2a	Compact fill material to 93% Mod. AASHTO	m3	1,566		
7		Trimming of Embankments	m2	60		
8	8.3.2a	Formation (fill)	m2	60		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 2 Bulk Earthworks REPAIRS AND RENOVATIONS				

		<u>PARKINGS</u>				
9	8.3.1.2	Remove topsoil to depths between 100mm and 150mm to spoil (rate to include overhaul)	m3	375		
10	8.3.2a	Excavate in soft material and place directly to fill	m3	375		
11	8.3.2a	Excavate in soft material to spoil (rate to include overhaul)	m3	375		
12	8.3.2b	Extra Over for items 8.3.2a excavation in hard material	m3	40		
13	8.3.2a	Compact fill material to 93% Mod. AASHTO	m3	1,110		
14	8.3.2a	Formation (fill)	m2	60		
15		Trimming of Embankments	m2	40		
16	8.3.4	Import G4 quality material from off site or commercial source and compact to 100% Mod AASHTO in 150mm layer (rate to include overhaul)	m3	375		
17		G6 layer - compacted to 98% of modified AASHTO density of 100mm thick	m3	375		
18		G7 layer - compacted to 95% of modified AASHTO density of 100mm thick	m3	375		
19		Finishing the site (Rate to include backfilling behind the kerbs, topsoiling and grass planting)	m2	700		
		Carried to Collection			R	
		Section No. 16				
		Section 16: External Works				
		Bill No. 2				
		Bulk Earthworks				
		REPAIRS AND RENOVATIONS				

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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 16</u>				
		<u>BILL NO. 4</u>				
		<u>SEWER RETICULATION</u>				
		<u>PREAMBLES</u>				
		For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
	SANS 1200 DB	<u>EARTHWORKS FOR PIPE TRENCHES</u>				
	8.3.2a	<u>Excavate for 160mm diameter pipes in all materials where depth is:</u>				
1		0 m up to 1,5 m	m	400		
2		1,5 m up to 2,0 m	m	267		
3	8.3.2b	Extra over sub item 8.3.2a for excavation in hard material irrespective of depth.	m3	42		
4	8.2.2.3	Provision of granular sand bedding (Class C) from commercial or off-site source	m3	168		
5	8.2.1	Impermeable backfilling to sewer	m3	630		
6	8.2.1	Encasing of pipes in concrete (Provisional)	m3	10		
7		Disposal of surplus material caused by importation of bedding and removal of hard or rock material to spoil	m2	672		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 4 Sewer Reticulation REPAIRS AND RENOVATIONS				

SANS 1200	<u>SEWER</u>				
8.2.1	<u>uPVC PIPES</u>				
	<u>Supply, pipe lay in trenches approved solid wall Upvc Class 34 pipe to SABS ISO 4427. Pipes to be supplied in lengths of 12m of nominal diameter.</u>				
8	160mm uPVC pipe	m	667		
8.2.3	<u>MANHOLES</u>				
	<u>Precast Concrete manholes complete with class 25MPa/ 19mm base, concrete benching on and including class 10MPa/13mm concrete filling, step, type 4 cast iron heavy duty cover and frame on and including precast concrete adaptor frame and grid inlet sealed to and including concrete ring beam with polysulphide sealant, to depths:</u>				
9	500 mm up to 750mm deep invert	No	3		
10	750 mm up to 1m deep invert	No	1		
11	1.0m up to 1.25m ditto	No	18		
12	1.25m up to 1.50m ditto	No	2		
13	1.50m up to 1.75m ditto	No	4		
14	1.75m up to 2.0m ditto	No	1		
	<u>TESTING AND COMMISSIONING</u>				
15	Allow for testing and commissioning of new sewer system		Item		
Carried to Collection					R
Section No. 16 Section 16: External Works Bill No. 4 Sewer Reticulation REPAIRS AND RENOVATIONS					

	<u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 91% Mod AASHTO to density</u>				
23	Backfilling to trenches, holes, etc	m3	6		
	<u>Compaction of surfaces</u>				
24	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	15		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10MPa/19mm Concrete in:</u>				
25	Blinding under footings and bases	m3	1		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25 MPa Concrete in:</u>				
26	Slab	m3	4		
27	Bases	m3	4		
	<u>TEST BLOCKS</u>				
28	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	2		
	Carried to Collection				
	Section No. 16				
	Section 16: External Works				
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	REPAIRS AND RENOVATIONS				

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8	8.2.1	Disposal of surplus material caused by importation of bedding and removal of hard or rock material to spoil	m3	105		
	SANS 1200 L	<u>WATERMAIN</u> <u>Supply, lay in trenches approved solid wall Upvc Class 12 pipe to SABS ISO 4427. Pipes to be supplied in lengths of 12m of nominal diameter;</u>				
9	8.2.1	50mm	m	198		
10	8.2.1	40mm	m	125		
11	8.2.1	32mm	m	260		
12	8.2.1	20mm	m	120		
		<u>FITTINGS - Upvc</u> <u>Supply, and lay in trenches, walls, ceilings, etc. approved solid wall Upvc Class 12 pipe SABS ISO 4427.</u> <u>Stop Cocks</u>				
13	8.2.5	Supply and install 50mm diameter water valves	No	7		
14	8.2.5	Supply and install 32mm diameter water valves	No	14		
		<u>uPVC Long radius 90 degrees bends</u>				
15		100mm	No	1		
16		75mm	No	2		
17		50mm	No	5		
18		40mm	No	4		
19		32mm	No	4		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 5 Water Reticulation REPAIRS AND RENOVATIONS				

20		20mm	No	15		
		<u>uPVC Equal T-piece</u>				
21	8.2.2	50mm	m	6		
22	8.2.2	40mm	m	8		
23	8.2.2	32mm	m	6		
24	8.2.2	20mm	m	4		
		<u>uPVC Reducing T-piece</u>				
25	8.2.2	50mm x 40mm	m	4		
26	8.2.2	50mm x32mm	m	4		
27	8.2.2	40mm x 32mm	m	5		
28	8.2.2	32mm x 20mm	m	7		
		<u>uPVC Straight Reducers</u>				
29	8.2.2	75mm x 63mm	m	1		
30	8.2.2	50mm x 40mm	m	4		
31	8.2.2	50mm x32mm	m	5		
32	8.2.2	40mm x 32mm	m	4		
33	8.2.2	32mm x 20mm	m	8		
	8.2.5	<u>WATER METER</u>				
		Registers 6 digit cyclometer-type totalisers registering kL, must be hermetically sealed. Main valave body to be cast iron, and meter to be installed horizontally. Meter to be fitted with "intelligent" automatic data register, accuracy better than 2% Meter tendered for.....See Detail				
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 5 Water Reticulation REPAIRS AND RENOVATIONS				

34		Supply and install complete 50mm Diameter in line through flow water meter 16 bar working pressure continuous flow rate 1250m3/h (maximum 1600 m3/h) Meter to be fitted with mechanical turbine flanged with drilling to BS 4504 Table 16 fitted with electronic logger port (logger port not supplied)	m	1		
	8.2.5	<u>GATE VALVES</u>				
35		Gate resilient seated gate valve to SABS 664, for waterworks purposed, double socket, non rising spindle, class 16	m	2		
36		Reduce pressure backflow prenter (Non return valve)	m	1		
	8.12.13	<u>VALVE CHAMBERS</u> <u>SEE STANDARD DETAILS</u>				
37	8.2.1	Reinforced concrete valve box, including valve box cover and frame as details to suit 32-50mm diameter cut-off valve, including sealed wall sleeves	m	13		
		<u>Install Water Meters For The following sizes:</u>				
38	8.2.13	DN50	m	1		
		<u>WATER TANKS</u>				
39		Install a 70 cubic meter elevated steel panel tank fitted complete with plinth, supports, access ladders and all relevant pipe fittings			SUM	
		<u>Old world concrete or equally approved drinking fountain</u>				
40		Precast concrete drinking fountain 1200mm high complete with gulley, tap, pipework etc	No	7		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 5 Water Reticulation REPAIRS AND RENOVATIONS				

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TESTING AND COMMISSIONING

Allow for testing and commissioning of new water system

Item

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Section 16: External Works
Bill No. 5
Water Reticulation

REPAIRS AND RENOVATIONS

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		<u>SECTION NO. 16</u>				
		<u>BILL NO. 6</u>				
		<u>ROADS AND PAVINGS</u>				
		<u>PREAMBLES</u>				
		For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b				
		<u>MAINTENANCE PERIOD</u>				
		The maintenance period for the following work shall be 12 calendar months				
	SANS 1200 DM	<u>ROADWORKS AND PARKINGS</u>				
1	8.2.2	80mm Grey Permeable Paving Blocks	m2	3,716		
2	8.2.2	Cobble stone	m2	400		
	SANS 1200 MK	<u>ROADWORKS AND PARKINGS</u>				
3	8.2.1	Prefabricated mountable kerb, SABS 927 fig 8c, as shown on the detailed drawings	m	20		
4	8.2.1	Prefabricated mountable kerb, SABS 927 fig 8c circular on plan, as shown on the detailed drawings	m	10		
5	8.2.1	Prefabricated Vertical kerb, fig 3m, as shown on the detailed drawings	m	180		
6	8.2.1	Prefabricated Vertical kerb, fig 3m circular on plan, as shown on the detailed drawings	m	10		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 6 Roads and Pavings REPAIRS AND RENOVATIONS				

7	8.2.1	Prefabricated edging kerb, SABS 927 fig 12, as shown on the detailed drawings	m	20		
8	8.2.1	Prefabricated edging kerb, SABS 927 fig 12 circular on plan, as shown on the detailed drawings	m	10		
9		Circular cutting	m	30		
		<u>CONCRETE GROUND SLABS, PAVINGS, JOINTS, ETC</u>				
10		25Mpa Reinforced concrete in ground slabs, pavings, etc.	m3	124		
11		Type 193 mesh reinforcement to concrete slabs	m2	1,240		
12		25Mpa Reinforced concrete in ramps, etc.	m3	8		
13		Finishing top surfaces of concrete surfaces with a wood float	m2	1,280		
		<u>JOINTS, ETC.</u>				
14	SANS 1200	6mm x 15mm Saw cut joint in concrete slab	m	380		
15		15mm Expansion joint with joint former and polysulphipe sealant	m	380		
		<u>ROADWORKS REMAINDER</u>				
16		Extra over items 6.1.3 for curves with radius less than 25mm but greater or equal to 2.0m	m	20		
17		Overhaul of material hauled in excess of 1.0 km (ordinary overhaul)	m3.km	270		
		Carried to Collection			R	
		Section No. 16 Section 16: External Works Bill No. 6 Roads and Pavings REPAIRS AND RENOVATIONS				

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	<u>SECTION NO. 16</u>			
	<u>BILL NO. 7</u>			
	<u>DECANTING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>PLATFORMS ETC</u>			
1	Platforms for Temporary Mobile Classrooms, as per Engineers specifications etc	m2	1,430	
	<u>TEMPORARY MOBILE CLASSROOM / ABLUTIONS</u>			
	<u>Temporary Mobile Classrooms Structures for 12 Months Rental including delivery, joining, installation and demobilization</u>			
2	Administration mobile unit size 23.240m x 7.060m	Mnt	12	
3	Sixteen (16) No. Classroom mobile unit size 6.980m x 7.060m	Mnt	12	
4	Two (2) No. Ablution mobile units size 9.206m x 4.593m	Mnt	12	
5	Ablution mobile unit size 10.900m x 3.308m	Mnt	12	
6	Ablution mobile unit size 17.606m x 3.308m	Mnt	12	
	<u>Construct temporary structures complete including surface beds, steel columns, brickwork, excavations, backfilling, cartaway and roof covering etc</u>			
7	Cooking shed unit size 10.460m x 9.398 x 3.0m high	No	1	
	Carried to Collection			
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	Section 16: External Works			
	Bill No. 7			
	Decanting			
	REPAIRS AND RENOVATIONS			

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Section 16: External Works

Bill No. 7

Decanting

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Section 16: External Works

Bill No. 7

Decanting

REPAIRS AND RENOVATIONS

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EARTHWORKS (PROVISIONAL)**EXCAVATION, FILLING, ETC****Excavation in earth or compacted filling not exceeding 2m deep**

1	Holes	m3	70
2	Edge beam	m3	92

Extra over excavations in earth for excavation in:

3	Soft rock	m3	16
4	Hard rock	m3	8

Extra over all excavations for carting away

5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	162
---	--	----	-----

Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	928
---	--	----	-----

Carried to Collection**R**

Section No. 16

Section 16: External Works

Bill No. 8

Walkways

REPAIRS AND RENOVATIONS

<u>Keeping excavations free of water</u>					
7	Keeping excavations free of water		Item		
<u>FILLING, ETC</u>					
<u>Earth filling of G7 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>					
8	Under floors, steps, pavings, etc	m3	293		
<u>Compaction of surfaces</u>					
9	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	976		
<u>Prescribed density tests on filling</u>					
10	"Modified AASHTO Density" test	No	20		
<u>SOIL POISONING AND PROTECTION AGAINST TERMITES</u>					
<u>Soil insecticide under a 10 year guarantee by a firm of specialist</u>					
11	To bottoms and sides of trenches, etc	m2	640		
12	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	976		
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CONCRETE, FORMWORK AND REINFORCEMENT**SUPPLEMENTARY PREAMBLES****Cost of tests**

The costs of making, storing and testing of concrete test cubes/slump tests 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 Engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the Engineer. (Test cubes are measured separately)

Formwork

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. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

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

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

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

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	<u>15MPa/19mm Concrete in:</u>				
13	Blinding under footings and bases	m3	4		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25 MPa Concrete in:</u>				
14	Bases	m3	70		
15	Edge beam	m3	92		
	<u>TEST BLOCKS</u>				
16	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	27		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1,832		
	<u>ROADS AND PAVINGS</u>				
	<u>PAVINGS</u>				
	<u>Paving of 60mm paving burnt clay bricks to comply with SABS 1575 with butt joints on 20mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>				
18	Paving in herringbone pattern	m2	976		
19	Fair circular cutting	m	20		
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WATERPROOFING**DAMPPROOFING OF WALLS AND FLOORS**

One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements

20	Under pavings etc	m2	976
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ROOF COVERINGS, ETC**SUPPLEMENTARY PREAMBLES**

Descriptions of all roof coverings are deemed to include for all straight cutting

Note: The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified

PROFILED METAL SHEETING AND ACCESSORIES

0,80mm Approved Z450 Klip-lok 700 profile galvanised sheet steel with chromadeck finish on one side in single lengths fixed to timber purlins or rails and 0,60mm approved Z450 galvanised sheet steel accessories with silicon polyester finish on one side

Note: The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified

21	Roof covering with pitch not exceeding 25 degrees	m2	1,074
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STRUCTURAL STEELWORK**SUPPLEMENTARY PREAMBLES****Descriptions**

Descriptions of bolts shall be deemed to include nuts and washers

Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete

STRUCTURAL STEELWORK**Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to rafters**

22	100 x 100 x 4mm SHS	t	17.110
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STEEL TRUSSES ETC**Welded portal frames with flat section bearer, gusset and connection plates and L-section cleats bolted to concrete**

23	150 x 100 x 3mm RHS	t	6.220
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PURLINS, GIRTS, BRACING, ETC**Purlins and girts bolted to steel**

24	150 x 75 x 20 x 2.5mm Thick CFLC purlins	t	9.483
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25	125 x 75 x 8mm Thick angle cleat	t	0.460
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26	50 x 6mm Flat bars	t	0.107
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REPAIRS AND RENOVATIONS

	<u>Welded bracing etc with flat section connection plates bolted to steel</u>		
27	50 x 50 x 5 Angle section bracing	t	4.524
	<u>Base plates</u>		
28	300 x 300 x 4mm Base plate	t	0.887
29	100 x 100 x 8mm Gusset plate	t	0.197
	<u>Bolts and nuts</u>		
30	M12 x 50 Bolts and nuts.	No	4,082
	<u>GUTTERS, DOWNPIPES, ETC.</u>		
	<u>Commercial and industrial ogee profile chromadeck seamless gutter coated internally and externally in colour bateleur brown with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement facia with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled riverts, with 75 x 50 x 0.6mm thick chromadeck downpipe in colour beteleur brown fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc</u>		
31	150 x 125 x 0.8mm Thick overall commercial and industrial Ogee seamless eaves gutters coated internally and externally including sealing joints inside with approved silicone sealer, and fixed to fascia board (fascia board elsewhere measured) with 20 x 2.5mm hanger brackets at 600mm centres using aluminium peeled rivets	m	468
32	100 x 75 x 0.6mm Rainwater downpipe with brackets fixed to brick wall or concrete	m	364
33	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	157

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34	Extra over 150 x 125 x 0.8mm thick ogee eaves gutter for stopped end	No	10
35	Extra over 150 x 125 x 0.8mm Ogee eaves gutter for angle	No	157
36	Extra over 150 x 125 x 0.8mm ogee eaves gutter for outlet for 75 x 50mm pipe	No	157
37	Extra over 75 x 50 x 0.6mm rainwater pipe for eaves offset	No	157
38	Extra over 75 x 50 x 0.6mm rainwater pipe for shoe	No	157

PAINTWORK, ETC TO NEW WORK

ON METAL

Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint

39	On structural steel	t	39
40	On eaves gutters	m2	262
41	On down pipes	m2	87

FLAGPOLES AND FLAGS

42	Supply and install 6m high flag pole complete including casting concrete, excavations, cartaway etc	No	2
43	Supply South Africa standard flag 180 x 120mm	No	1
44	Supply Kosea Moeka Primary school digitally printed flags unto ultrasheen finished with rope and tangle size 180 x 120mm	No	1

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REPAIRS AND RENOVATIONS

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 16</u>			
	<u>BILL NO. 9</u>			
	<u>FENCING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b			
	<u>FENCING</u>			
	<u>1800mm High diamond mesh wire fencing including two coats aluminium paint on metal stays, framing, etc</u>			
1	Fencing formed of 100mm diameter hollow section standards 1800mm long at maximum 2000mm centres driven into ground galvanised wire tied to standards, posts and eye bolts	m	115	
	<u>"Invisible steel fence"</u>			
2	Mesh panels size 3000mm wide x 3000mm high, 3mm Diameter high tensile wire galvanised with aperture size (centres) @ 76.2 x 12.7mm. Panel reinforced with 4 x 50mm deep v-recessed bands plus 2 x 75mm 70 degrees flanges along sides including shark tooth spike 2mm thick toughened steel 100 high, post size 85mm square galvanized post 3000mm high with locking recess mechanism and sealed with uv stabilized polymer cap, complete bedded in 25MPa concrete bases size 400 x 400 x 700mm deep and including excavations, 600mm invisible mesh extension buried in trench, backfilling, cart way etc as per drawing number PJJN_ZA_2020_2003_DBSA_KMPS_SE_4004_R00	m	672	
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	Fencing			
	REPAIRS AND RENOVATIONS			

3	Mesh panels size 3000mm wide x 1500mm high, 3mm Diameter high tensile wire galvanised with aperture size (centres) @ 76.2 x 12.7mm. Panel reinforced with 4 x 50mm deep v-recessed bands plus 2 x 75mm 70 degrees flanges along sides including shark tooth spike 2mm thick toughened steel 100 high, post size 85mm square galvanized post 1500mm high with locking recess mechanism and sealed with uv stabilized polymer cap, complete bedded in 25MPa concrete bases size 400 x 400 x 700mm deep and including excavations, backfilling, cart way etc	m	155		
	<u>Gates finish to match existing invisible steel fence</u>				
4	Single gate size, 900 x 1500mm high of 150 x 150mm hollow section frame with 50 x 3mm flat bar spikes welded to top rail at 50mm C/C, complete including excavations, cart away, concrete under rail, 25 x 25 x 3mm galvanised mild steel angle cast in concrete, hinges, 1 x double cylinder mortice lock, welded to steel columns	No	1		
5	Single gate size, 1500 x 1500mm high of 150 x 150mm hollow section frame with 50 x 3mm flat bar spikes welded to top rail at 50mm C/C, complete including excavations, cart away, concrete under rail, 25 x 25 x 3mm galvanised mild steel angle cast in concrete, hinges, 1 x double cylinder mortice lock, welded to steel columns	No	1		
6	Sliding gate size, 6600 x 2400mm high of 85mm square galvanized post sealed with uv stabilized polymer cap, 3mm high tensile wires galvanised mesh, 3 number 100mm diameter gate wheels on 16mm bar with 100mm hot dipped galvanized high toughened steel castle spike fixed to panel internally at 150mm C/C, complete including excavations, cart away, concrete under rail, 25 x 25 x 3mm galvanised mild steel angle cast in concrete, hinges, 1 x double cylinder mortice lock as per drawing no. JPN_ZA_2020_2003_DBSA_KMPS_SE_4004_R00	No	1		
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SIGNAGE**Name board**

- 7 Name board size 2500 x 2000mm complete with 75mm diameter steel tubes, 50mm diameter steel tube anchor, excavations, bases, cartaway, etc complete

No

1

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Fencing

REPAIRS AND RENOVATIONS

GROUND COVERS**Grassing, ground covers, etc**

3	"L.M. Lawn" Instant lawn	m2	1,300
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Trees, plants, etc

4	Clivia miniata	No	5
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 Landscapping
REPAIRS AND RENOVATIONS

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<u>Excavation in earth or compacted filling not exceeding 2m deep</u>			
1	Bases	m3	9
<u>Extra over excavations in earth for excavation in:</u>			
2	Soft rock	m3	1
3	Hard rock	m3	0.5
<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	9
<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	76
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water		Item
<u>SOIL POISONING AND PROTECTION AGAINST TERMITES</u>			
<u>Soil insecticide under a 10 year guarantee by a firm of specialist</u>			
7	To bottoms and sides of trenches, etc	m2	86
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>10MPa/19mm Concrete in:</u>			
8	Blinding under footings and bases	m3	1
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
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STEEL TRUSSES ETC

**Welded portal frames with flat section bearer,
gusset and connection plates and L-section cleats
bolted to concrete**

14	150 x 100 x 3mm RHS	t	1.296
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REPAIRS AND RENOVATIONS

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PURLINS, GIRTS, BRACING, ETC**Purlins and girts bolted to steel**

15	150 x 75 x 20 x 2.5mm Thick CFLC purlins	t	2.171
16	125 x 75 x 8mm Thick angle cleat	t	0.154
17	50 x 6mm Flat bars	t	0.036

Welded bracing etc with flat section connection plates bolted to steel

18	50 x 50 x 5 Angle section bracing	t	0.354
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Base plates

19	300 x 300 x 4mm Base plate	t	0.119
20	100 x 100 x 8mm Gusset plate	t	0.026

Bolts and nuts

21	M12 x 50 Bolts and nuts.	No	504
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PAINTWORK, ETC TO NEW WORK**ON METAL****Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint**

22	On structural steel	t	6
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<u>Extra over all excavations for carting away</u>		
4	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3 235
<u>Keeping excavations free of water</u>		
5	Allow for keeping excavations free of all water other than subterranean water	Item
<u>Earth filling of G7 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>		
6	Under floors, steps, pavings, etc	m3 235
<u>Compaction of surfaces</u>		
7	Compaction of ground surface under combi court area including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2 806
<u>Prescribed density tests on filling</u>		
8	"Modified AASHTO Density" test	No 15
<u>SOIL POISONING AND PROTECTION AGAINST TERMITES</u>		
<u>Soil insecticide under a 10 year guarantee by a firm of specialist</u>		
9	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2 806

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 Combi courts
REPAIRS AND RENOVATIONS

CONCRETE, FORMWORK AND REINFORCEMENT**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES****10MPa/19mm Concrete in:**

10	Blinding under footings and bases	m3	1
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25 MPa/19mm Concrete in:

11	Surface beds	m3	161
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TEST BLOCKS

12	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Representative/Agent. Only successful tests will be paid for	No	6
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CONCRETE SUNDRIES**Finishing top surfaces of concrete smooth with a wood float**

13	Surface beds, slabs, etc	m2	806
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REINFORCEMENT**Fabric reinforcement**

14	Mesh reinforcement with mesh reference number 289 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	806
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IRONMONGERY**Standard sports nets including all fixing ropes, attachments, etc.**

15	Netball net including fixing in position complete to netball ring (elsewhere)	No	4
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Combi courts

REPAIRS AND RENOVATIONS

16	Basketball net including fixing in position complete to basketball ring (elsewhere)	No	4		
17	Volleyball net and handing over to the Representative or Agent	No	1		
18	Tennis court net and handing over to the Representative or Agent	No	1		
<u>METALWORK</u>					
<u>HOT-DIPPED GALVANISED MILD STEEL</u>					
NOTThe following are to be hot-dipped galvanised after fabrication of complete units					
<u>Framed and welded hot-dipped double spelter galvanised mild steel poles, rings, etc. for sports equipment</u>					
19	Support for basketball net (elsewhere) formed of 16mm diameter rod ring to 450mm internal diameter with 60 x 10mm flat section L-shaped arm 300mm girth and with two 10mm diameter rod supporting arms each 500mm girth twice bent and welded onto ring and onto and including 450 x 350 x 6mm flat section backing plate four times holed for bolts (elsewhere) including bolting unit in position complete to steel framework	No	2		
20	Sleeve for removable pole formed of 102mm diameter x 2,5mm thick hollow section 700mm long with 140 x 140 x 10mm flat section flange with machine bevelled and scribed opening to suit sleeve diameter welded onto top end and with 250 x 250 x 6mm flat section base plate welded onto bottom end including setting up and embedding in position complete in concrete base (elsewhere)	No	6		
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21	Removable tennis pole formed of 89mm diameter x 4mm thick hollow section 1900mm long with top end welded closed with flat section, the pole once holed for and including net tension arm with eye formed of 16mm diameter threaded rod 450mm long complete with crank handle formed of 10mm diameter rod 350mm girth with threaded collar formed of 50 x 50 x 30mm flat section welded on and bolting onto tension arm; net straining eye formed of 8mm diameter rod welded onto pole including setting up unit in position complete in sleeve (elsewhere) and later removing and handing over to the Representative/Agent	No	2		
22	Removable netball pole formed of 89mm diameter x 4mm thick hollow section 3900mm long with mushroom cap welded onto top, the pole with and including support for netball net (elsewhere) formed of 16mm diameter rod ring to 380mm internal diameter with 16mm square section L-shaped arm 250mm girth welded onto pole and onto ring including setting up unit in position complete in sleeve (elsewhere) and later removing and handing over to the Representative/Agent	No	2		
23	Basketball pole formed of 127mm diameter x 4mm thick hollow section 3900mm long with mushroom cap welded onto top end and 250 x 250 x 6mm flat section base plate welded onto bottom end, the pole with and including support for netball net (elsewhere) formed of 16mm diameter rod ring to 380mm internal diameter with 16mm square section L-shaped arm 250mm girth welded onto pole and onto ring; L-shaped arm 2913mm girth formed of 102mm diameter x 2,8mm thick hollow section with one end welded onto pole and other end welded closed with 6mm flat section; stay formed of 102mm diameter x 2,8mm thick hollow section 1602mm long extreme with ends scribed and welded onto pole and arm; 1200 x 450 x 6mm flat section mounting plate eight times holed for bolts (elsewhere) and with three 450 x 60 x 6mm overall flat section flanges welded onto mounting plate and scribed as necessary and welded onto L-shaped arm including setting up unit and embedding in position complete in concrete base (elsewhere)	No	2		
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24	Removable volleyball pole formed of 89mm diameter x 4mm thick hollow section 3300mm long with mushroom cap welded onto top, the pole with and including four net straining eyes formed of 8mm diameter rod welded onto pole including setting up unit in position complete in sleeve (elsewhere) and later removing and handing over to the Representative/Agent	No	2		
	<u>Framed and welded hot-dipped double spelter galvanised mild steel framing for two basketball backboards and fixing in position complete</u>				
25	Screw bolts with nuts and washers	kg	1		
26	25 x 25 x 1,8mm Hollow section framing holed for and bolted to 18mm thick timber backboard (elsewhere) with and including 6mm diameter galvanised gutter bolts at 400mm centres	m	17		
27	Extra for mitred and welded angle intersection	No	8		
28	Extra for welded T-intersection	No	16		
29	Hole through both 2,5mm thick walls of hollow section and 18mm thick timber backboard for 10mm diameter bolt (elsewhere)	No	16		
	<u>PAINTWORK</u>				
	<u>ON BITUMINOUS SURFACING</u>				
	<u>Prepare and apply two full coats solvent based road and runway marking paint including silica sand sprinkled on before the paint has set to form slip-free surface</u>				
30	Basketball court marking lines 56mm wide	m	287		
31	Netball court marking lines 56mm wide	m	122		
32	Basketball court marking lines 56mm wide set out circular	m	151		
33	Netball court marking lines 56mm wide set out circular	m	20		
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SURFACING OF BITUMINOUS PREMIX CARPET
Bituminous premix combi court surfacing

34	Prime coat	m2	806
35	25mm Thick continuously graded premixed bituminous surfacing	m2	806
36	Final course bitumal slurry seal	m2	806

FENCING TO COMBI COURTS
IRONMONGERY
Bolts and latches

37	200mm Galvanised heavy duty barrel bolt welded onto gate style	No	2
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Locks

38	63mm Brass five pin tumbler padlock with two keys	No	2
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FENCING

39	Fencing 1300mm high formed of 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails and posts at 3870mm centres (rails and posts elsewhere) with and including 2mm galvanised binding wire	m	10
40	Fencing 3600mm high formed of two strands of 4mm thick galvanised mild steel straining wire mechanically strained between intermediate or gate and main posts at maximum 20m centres with one end passed through holes and securely tied to posts and other end securely tied to and including eye olts bolted onto posts; each strand tied at maximum 4000mm centres to intermediate posts (elsewhere) with and including 2mm galvanised binding wire; the fence covered with and including 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails, posts and straining wires with and including 2mm galvanised binding wire	m	120

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REPAIRS AND RENOVATIONS

REPAIRS & RENOVATIONS AT KOSEA MOEKA PRIMARY

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41	38,1mm Diameter x 2mm thick galvanised mild steel top or bottom rails	m	260		
42	Extra for scribed and welded T-intersection with post	No	130		
43	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 1400mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end and four times holed for and bolted to top of wall with and including M10 x 95mm expansion bolts	No	2		
44	48,5mm Diameter x 3mm thick galvanised mild steel gate post and top rail 4000mm girth with one mitred and welded intersection, one end welded to side of main post and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	2		
45	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 4600mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	30		
46	76,2mm Diameter x 4mm thick galvanised mild steel main post 4600mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	8		
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Galvanised mild steel gates

- 47 Single pedestrian gate size 900 x 2100mm high formed of 50mm diameter x 2,8mm thick pipe framing all round complete with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections; the gate with two strands of 4mm thick galvanised mild steel straining wire mechanically strained between and securely fixed to gate styles and covered with and including 50mm mesh chain link netting of 3,15mm diameter galvanised mild steel wire securely fixed to straining wires and framing with and including 2mm galvanised binding wire, the one style fitted with and including two standard type pin and collar hinges bolted onto gate post (elsewhere) including drilling holes through gate post and other style prepared and drilled for barrel bolt (elsewhere) and hand-hole opening formed of 10mm diameter bar 320mm girth bent to semi-circular shape and welded on

No

2

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Section No. 16

Section 16: External Works

Bill No. 12

Combi courts

REPAIRS AND RENOVATIONS

Section No. 16

Section 16: External Works

Bill No. 12

Combi courts

COLLECTION

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Section 16: External Works

Bill No. 12

Combi courts

REPAIRS AND RENOVATIONS

	<u>Filling, etc.</u>				
7	Imported top soil filling supplied by the Contractor, brought onto site and spread and levelled over sports field	m3	1,324		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under athletic tracks area including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 95% modified AASHTO density	m2	4,412		
	<u>CONCRETE</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm Concrete in:</u>				
9	Blinding under footings and bases	m3	1		
	<u>25 MPa concrete</u>				
10	Bases	m3	1		
	<u>SUNDRIES</u>				
	<u>Standard sports nets including all fixing ropes, pegs, attachments, etc.</u>				
11	Soccer goal post net to fit frame with front size 7,52 x 2,54m high with hexagonal 4mm PP nets and handing over to the Representative/Agent	No	2		
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Bill No. 13					
Soccer Field with Athletic Tracks (Provisional)					
REPAIRS AND RENOVATIONS					

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Section 16: External Works

Bill No. 13

Soccer Field with Athletic Tracks (Provisional)

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Section 16: External Works

Bill No. 13

Soccer Field with Athletic Tracks (Provisional)

REPAIRS AND RENOVATIONS

R

Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	130
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	26
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3	Hard rock	m3	13
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Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	78
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Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	372
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Keeping excavations free of water

6	Keeping excavations free of water	Item	
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Section No. 16

Section 16: External Works

Bill No. 14

Retaining walls

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	52
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SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

8	To bottoms and sides of trenches, etc	m2	589
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UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

10MPa/19mm Concrete in:

9	Blinding under footings and bases	m3	11
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

10	Strip footings	m3	54
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TEST BLOCKS

11	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	9
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Section No. 16
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Retaining walls
REPAIRS AND RENOVATIONS

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FOUNDATIONS (PROVISIONAL)**Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar**

12	One brickwalls	m2	109
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SUPERSTRUCTURE**Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar**

13	One brickwalls	m2	146
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SUNDRIES**Brickwork reinforcement**

14	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	995
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110mm uPVC weep holes

15	330mm Long	No	240
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Section 16: External Works

Bill No. 14

Retaining walls

REPAIRS AND RENOVATIONS

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Excavations in conditions other than earth

Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly

Subterranean water

The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.

EXCAVATION, FILLING, ETC**Excavation in earth or compacted filling not exceeding 2m deep**

1	Trenches	m3	5
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	1
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3	Hard rock	m3	1
---	-----------	----	---

Extra over all excavations for carting away

4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2
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Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	14
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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Carried to Collection

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Section No. 16

Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

REPAIRS AND RENOVATIONS

FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density

7	Backfilling to trenches, holes, etc	m3	1
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 91% Mod AASHTO to density

8	Backfilling to trenches, holes, etc	m3	1
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SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by a firm of specialist

9	To bottoms and sides of trenches, etc	m2	19
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UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

10MPa/19mm Concrete in:

10	Blinding under footings and bases	m3	1
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

11	Strip footings	m3	1
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TEST BLOCKS

12	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	7
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Section No. 16

Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

REPAIRS AND RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

13	One brickwalls	m2	5
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SUPERSTRUCTURE

Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

14	One brick walls	m2	10
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BRICKWORK SUNDRIES

Brickwork reinforcement

15	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	60
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FACE BRICKWORK

Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.

16	One brick wall faced both sides	m2	10
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EXTERNAL PLASTER

Cement plaster on brickwork

17	On walls	m2	3
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WALL TILING

200 x 200 x 10mm glazed wall tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound

18	On walls	m2	3
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Carried to Collection

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Section No. 16

Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

REPAIRS AND RENOVATIONS

SANITARY FITTINGS**"Vaal" or equal approved**

19	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with one tapholes supported on and incl. two bolts (code 84467Z0)	No	6
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WASTE UNIONS, ETC

20	32mm Basin waste union	No	6
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Cobra Watertech or equal approved

21	40mm Deep seal "P" or "S" trap	No	6
22	15mm CP angle regulating valve	No	6
23	15 x 350mm CP flexible connector	No	6
24	15mm Cobra or equal approved star basin tap	No	6
25	20mm Full way stop cock	No	2

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Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

REPAIRS AND RENOVATIONS

Section No. 16

Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

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Section 16: External Works

Bill No. 15

Wash Hand Basin Trough

REPAIRS AND RENOVATIONS

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 17</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>Community Liaison Officer</u>			
1	Provide the sum of R102 000,00 (One Hundred and Two Thousand Rands) for community liaison officer	Item		102,000.00
2	Add Profit upon above if required		%	
3	Attend upon above if required		%	
	<u>Project Steering Committee</u>			
4	Provide the sum of R43 200,00 (Forty Three Thousand Two Hundred Rands) for project steering committee	Item		43,200.00
5	Add Profit upon above if required		%	
6	Attend upon above if required		%	
	<u>Local Skills Transfer/Training</u>			
7	Provide the sum of R300 000,00 (Three Hundred Thousand Rands) for local skills transfer/training	Item		300,000.00
8	Add Profit upon above if required		%	
9	Attend upon above if required		%	
	Carried to Final Summary		R	
	Section No. 17			
	Section 17: Provisional Sums			
	Bill No. 1			
	Provisional Sums			
	REPAIRS AND RENOVATIONS			

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