



DEVELOPMENT BANK OF SOUTHERN AFRICA

**RENOVATIONS AND REFURBISHMENT AT
GOA KGANYA PRIMARY SCHOOL IN THE
NORTH WEST PROVINCE**

TENDER NO. RFP041/2022

UNPRICED BILLS OF QUANTITIES

- 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: No clause</p>	Item		
4	<p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Section 1: Preliminaries Bill No. 1 Preliminaries REPAIRS & RENOVATIONS</p>		R	

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:_____

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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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53	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.4 Existing premises occupied</u>			
54	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.5 Previous work - dimensional accuracy</u>			
55	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.6 Previous work - defects</u>			
56	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.7 Services - known</u>			
57	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.8 Services - unknown</u>			
58	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.9 Protection of trees</u>			
59	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.10 Articles of value</u>			
60	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B3.11 Inspection of adjoining properties</u>			
61	Fixed:_____ Value related:_____ Time related:_____	Item		
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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 Water

78 Fixed: _____ Value related: _____ Time related: _____

Item

B7.3 Electricity

79 Fixed: _____ Value related: _____ Time related: _____

Item

B7.4 Telecommunication facilities

80 Fixed: _____ Value related: _____ Time related: _____

Item

B7.5 Ablution facilities

81 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 attendance

84 Fixed: _____ Value related: _____ Time related: _____

Item

B9.3 Commissioning - fuel, water and electricity

85 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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<u>B11.3 Security of the works</u>				
92	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.4 Notice before covering work</u>				
93	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>11.5 Disturbance</u>				
94	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.6 Environmental disturbance</u>				
95	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.7 Works cleaning and clearing</u>				
96	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.8 Vermin</u>				
97	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.9 Overhand work</u>				
98	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.10 Instruction manuals and guarantees</u>				
99	Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B11.11 As built information</u>				
100	Fixed: _____ Value related: _____ Time related: _____	Item		
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101	<p><u>B11.12 Tenant installations</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>B12. SCHEDULE OF VARIABLES</u></p> <p><u>B12.1 Schedule of variables</u></p> <p>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.</p> <p>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.</p> <p><u>12.1 PRE TENDER INFORMATION</u></p> <p><u>12.1.1 Provisional Bills of Quantities</u></p> <p>[2.2] The quantities are provisional YES</p> <p><u>12.1.2 Availability of construction documentation</u></p> <p>[2.3] Construction of documentation is complete YES</p> <p><u>12.1.3 Interest of agents</u></p> <p>[2.4] Details: NIL</p> <p><u>12.1.4 Defined works area</u></p> <p>[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.</p> <p>Carried to Collection</p> <p>Section No. 1 Section 1: Preliminaries Bill No. 1 Preliminaries REPAIRS & RENOVATIONS</p>	Item	R
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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:_____

Item

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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.

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111	Fixed:_____ Value related:_____ Time related:_____	Item		
<u>C10.2 AWARENESS WORKSHOPS</u>				
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		
<u>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</u>				
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		
<u>C10.4 ACCESS TO CONDOMS</u>				
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:_____

Item

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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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Section No. 1
Section 1: Preliminaries
Bill No. 1
Preliminaries

REPAIRS & RENOVATIONS

RFP041/2022

R

REPAIRS & RENOVATIONS AT GOAKGANYA PRIMARY

EIMS NO: 600100443

RFP041/2022

Section No. 1			
Section 1: Preliminaries			
Bill No. 1			
Preliminaries			
<u>COLLECTION</u>			
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Total Brought Forward from Page No.	19		
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Section 1: Preliminaries			
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REPAIRS & RENOVATIONS			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 1</u>			
	<u>DEMOLITIONS</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>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 unnecessary 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			
	Carried to Collection		R	
	Section No. 2 Section 2: Demolitions Bill No. 1 Bill: Demolitions REPAIRS & RENOVATIONS			

damage to persons or property and for the safety of the structure throughout the whole of this Contract and must 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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Section No. 2
Section 2: Demolitions
Bill No. 1
Bill: Demolitions

REPAIRS & 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 | 180 |
|---|---|---|-----|

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 | 1 |
|---|---|----|---|

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Section No. 2
Section 2: Demolitions
Bill No. 1
Bill: Demolitions

REPAIRS & RENOVATIONS

REPAIRS & RENOVATIONS AT GOAKGANYA PRIMARY

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3	Break down and demolish existing building size approximately 40 000mm long x 9 000mm wide x 3 100mm high with two gable ends, including 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 (5 Classroom block)	No	1		
4	Break down and demolish existing carport size approximately 10370mm long x 11810mm wide x 3 100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport	No	1		
5	Break down and demolish existing carport size approximately 6220mm long x 5150mm wide x 3 100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport	No	1		
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Bill: Demolitions					
REPAIRS & RENOVATIONS					

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Section 2: Demolitions

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Bill: Demolitions

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Bill: Demolitions

REPAIRS & 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	380
2	Holes	m3	25

Extra over excavations in earth for excavation in:

3	Soft rock	m3	17
4	Hard rock	m3	5

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	126
---	--	----	-----

Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1,078
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 1

Earthworks (Provisional)

REPAIRS & RENOVATIONS

FILLING, ETC

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

8	Backfilling to trenches, holes, etc	m3	218
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	252
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

10	Under floors, steps, pavings, etc	m3	217
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Coarse river sand filling supplied by the contractor

11	Under floors etc	m3	36
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Compaction of surfaces

12	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	724
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Prescribed density tests on filling

13	"Modified AASHTO Density" test	No	30
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SOIL POISONING AND PROTECTION AGAINST TERMITES

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

14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	724
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15	To bottoms and sides of trenches, etc	m2	1,409
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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 1

Earthworks (Provisional)

REPAIRS & RENOVATIONS

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 1

Earthworks (Provisional)

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

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Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

1	Blinding	m3	7
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25 MPa Concrete in:

2	Plinths, etc	m3	7
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3	Aprons	m3	20
---	--------	----	----

4	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	203
---	---	---	-----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

5	Ramps	m3	8
---	-------	----	---

6	Footings	m3	42
---	----------	----	----

7	Holes	m3	6
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8	Stub columns	m3	3
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9	Surface beds	m3	94
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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

10	Steps, urinal steps, cupboard platforms, etc	m3	3
<u>TEST BLOCKS</u>			
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	30
<u>MOVEMENT JOINTS, ETC</u>			
<u>Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces</u>			
12	10mm Joints exceeding 300mm high	m2	293
<u>Saw cut joints</u>			
13	4 x 30mm Saw cuts in top of concrete	m	213
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete with wooden float finish</u>			
14	Ramps, etc	m2	24
15	Aprons, etc	m2	203
16	Slabs, etc	m2	54
<u>Rough formwork to sides</u>			
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	34
18	Sides of stub columns	m2	33
<u>REINFORCEMENT</u>			
<u>Mild tensile steel reinforcement to structural concrete work</u>			
19	10mm Diameter bars	t	1.00
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Section No. 3			
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block			
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Concrete, Formwork and Reinforcement			
REPAIRS & RENOVATIONS			

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High tensile steel reinforcement to structural concrete work

20	12mm Diameter bars	t	1.00
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21	16mm Diameter bars	t	1.00
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Fabric reinforcement

22	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	724
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23	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	248
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Section No. 3
 Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
 Bill No. 2
 Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

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

1	One brick walls	m2	411
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SUPERSTRUCTURE**Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar**

2	One brick walls	m2	926
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BRICKWORK SUNDRIES**Brickwork reinforcement**

3	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	5,035
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Concrete prestressed fabricated lintels

4	115 x 75mm Lintels in lengths not exceeding 3m	m	2
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Turning pieces

5	230mm Wide turning piece to lintels etc	m	103
---	---	---	-----

Joint forming material in movement joints

6	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	230
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Galvanised hoop iron cramps, ties, etc

7	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	191
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Carried to Collection**R**

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 3

Masonry

REPAIRS & RENOVATIONS

FACE BRICKWORK

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

8	Extra over brickwork for face brickwork	m2	609
9	Extra over brickwork for face brickwork in foundation	m2	138
10	Half brickwall in facing in beamfilling pointed one side	m2	73
<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>			
11	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	92
12	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	80
13	Coping on top of one brick wall	m	122

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

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Masonry

REPAIRS & RENOVATIONS

R

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 3

Masonry

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 3

Masonry

REPAIRS & RENOVATIONS

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</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>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer approved 375 micron embossed black polyethylene damp proof course</u>			
1	In walls	m2	56	
	<u>One layer of 250 micron HDPE lining waterproof sheeting with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements</u>			
2	Under surface beds	m2	724	
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	Section No. 3			
	Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block			
	Bill No. 4			
	Waterproofing			
	REPAIRS & 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	293
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	213

Carried to Collection

Section No. 3
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
Bill No. 4

Waterproofing

REPAIRS & RENOVATIONS

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 4

Waterproofing

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 4

Waterproofing

REPAIRS & RENOVATIONS

R

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	867
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	73
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	36

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Section No. 3
 Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
 Bill No. 5
 Roof Coverings, etc

REPAIRS & 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

Fixing

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

Carried to Collection

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 6

Carpentry and Joinery

REPAIRS & RENOVATIONS

R

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 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.

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.

Carried to Collection

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 6

Carpentry and Joinery

REPAIRS & RENOVATIONS

R

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	1 x 2 Classroom Block approximately 208m ² measured flat	No	1
2	Classroom Block A approximately 258m ² measured flat	No	2

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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 6

Carpentry and Joinery

REPAIRS & RENOVATIONS

R

<u>Sawn softwood</u>				
3	50 x 228mm Bearers bolted to steel columns	m	88	
<u>FASCIAS AND BARGE BOARDS</u>				
<u>Nutec board or equal approved</u>				
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	289	
<u>SKIRTINGS</u>				
<u>Wrought meranti</u>				
5	19 x 76mm skirting with 19mm quarter round nailed to walls	m	567	
<u>DOORS</u>				
<u>NOTE:</u>				
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.				
<u>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</u>				
6	40mm Single door, size 813 x 2032mm high	No	12	
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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block				
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Carpentry and Joinery				
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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
Bill No. 6
Carpentry and Joinery
REPAIRS & 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 brander, etc, all as per manufacturers instructions	m2	724
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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 brander at 400mm centres in one direction and around edges where required for fixing cornices, brander spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer	m2	567
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3	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	9
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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 brander at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.	m2	157
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Cornices

5	76mm Gypsum coved trim cornice	m	293
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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS & RENOVATIONS

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	<u>SECTION NO. 3</u>			
	<u>BILL NO. 8</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	567	
	<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>			
2	On vinyl flooring	m2	567	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block			
	Bill No. 8			
	Floor Coverings, Wall linings, etc			
	REPAIRS & RENOVATIONS			

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SUNDRIES
Dorma or equal approved

5	Stainless steel door stop type DDSS-SS-017 plugged	No	12
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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

6	3mm Thick x 32mm wide plate with letters "CLASSROOM 1"	No	1
---	--	----	---

7	3mm Thick x 32mm wide plate with letters "CLASSROOM 2"	No	1
---	--	----	---

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

10	3mm Thick x 32mm wide plate with letters "CLASSROOM 5"	No	1
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11	3mm Thick x 32mm wide plate with letters "CLASSROOM 6"	No	1
----	--	----	---

12	3mm Thick x 32mm wide plate with letters "CLASSROOM 7"	No	1
----	--	----	---

13	3mm Thick x 32mm wide plate with letters "CLASSROOM 8"	No	1
----	--	----	---

"Union" or equal approved

14	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	8
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15	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	3
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Carried to Collection

R

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 9

Ironmongery

REPAIRS & RENOVATIONS

MATS

Squeegee or equal approved

16	1300 x 1300 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	9
----	--	----	---

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

17	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 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	9
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PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

"Vitrex" or equal approved

18	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	18
19	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	16

Carried to Collection

R

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 9

Ironmongery

REPAIRS & RENOVATIONS

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>METALWORK</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>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers.			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described.			
	<u>STEEL HANDRAILS, BALUSTRADES, ETC</u>			
	<u>Welded balustrading</u>			
1	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	90	
	Carried to Collection			
	Section No. 3			
	Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block			
	Bill No. 10			
	Metalwork			
	REPAIRS & RENOVATIONS			

2	Extra over for L-intersection of horizontal balustrades	No	12
3	Extra over for flat closed end	No	12
4	8mm Expansion bolt	No	64
<u>SUNDRY METALWORK</u>			
<u>Welded steel columns, etc.</u>			
5	101.6 x 4.5mm CHS column size approximately 4000mm high with 200 x 200 x 10mm thick base plate with four holes drilled and U shaped holding bracket size 100 x 60 x 4.5mm thick formed of rectangular hollow section 200mm long twice drilled	No	25
6	100mm Long x 10mm diameter bolt and nut with two (2) washers	No	50
7	85mm Long x 10mm wide rawl bolt fixed	No	100
<u>Welded steel beam, etc</u>			
8	152 x 152 x 4.5 SHS beam welded to column	m	86
9	75 x 50 x 6mm mild steel lipped channel welded to beam	m	86
10	10 mm Diameter x 75 mm long expansion bolt	No	54

Carried to Collection

R

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 10

Metalwork

REPAIRS & RENOVATIONS

STEEL GATES, SCREENS, ETC

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

11	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
----	--	----	---

PRESSED STEEL DOOR FRAMES

Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

12	Frame for door size, 813 x 2 032mm high	No	13
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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

13	Window size 1000 x 900mm high	No	7
14	Window size 1 000 x 1 200mm high	No	63

ALUMINIUM WINDOWS

Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities

15	Window size 1000 x 900mm high	No	7
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Carried to Collection

R

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 10

Metalwork

REPAIRS & RENOVATIONS

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Section No. 3
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
Bill No. 10
Metalwork
REPAIRS & RENOVATIONS

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 10

Metalwork

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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 10

Metalwork

REPAIRS & RENOVATIONS

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

6	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	12
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Carried to Collection

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 11

Plastering

REPAIRS & RENOVATIONS

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Section No. 3
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block
Bill No. 13
Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 13

Plumbing and Drainage (Provisional)

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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS & 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

3	On ceilings and cornices	m2	157
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Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use

4	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	133
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ON METAL

Prepare and apply two coats bitumen paint

5	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	101
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Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

6	On pressed steel door frames	m2	26
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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

7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	374
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8	On steel members	m2	38
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9	On steel columns	m	75
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ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

10	On doors	m2	3
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Carried to Collection

R

Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 14

Paintwork

REPAIRS & RENOVATIONS

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Section No. 3

Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)

Bill No. 14

Paintwork

COLLECTION

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Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block

Bill No. 14

Paintwork

REPAIRS & RENOVATIONS

Section No. 3				
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block (A & B)				
SECTION SUMMARY - Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block				
Bill No		Page No	Amount	
1	Earthworks (Provisional)	57		
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4	Waterproofing	69		
5	Roof Coverings, etc	72		
6	Carpentry and Joinery	79		
7	Ceilings, Partitions and Access Flooring	82		
8	Floor Coverings, Wall linings, etc	83		
9	Ironmongery	87		
10	Metalwork	92		
11	Plastering	95		
12	Tiling	96		
13	Plumbing and Drainage (Provisional)	99		
14	Paintwork	103		
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Section No. 3				
Section 3: 1 x 2 Classroom Block, 2 x 3 Classroom Block				
REPAIRS & 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
2	Holes	m3	5

Extra over excavations in earth for excavation in:

3	Soft rock	m3	6
4	Hard rock	m3	3

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	13
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	257
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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Carried to Collection**R**

Section No. 4
 Section 4: Classroom - Grade R
 Bill No. 1
 Earthworks (Provisional)
REPAIRS & RENOVATIONS

FILLING, ETC

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

8	Backfilling to trenches, holes, etc	m3	50
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Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density

9	Under floors, steps, pavings, etc	m3	46
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Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

10	Under floors, steps, pavings, etc	m3	41
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Coarse river sand filling supplied by the contractor

11	Under floors etc	m3	7
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Compaction of surfaces

12	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	138
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Prescribed density tests on filling

13	"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

14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	138
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15	To bottoms and sides of trenches, etc	m2	255
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Section No. 4

Section 4: Classroom - Grade R

Bill No. 1

Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

1	Blinding	m3	2
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25 MPa Concrete in:

2	Plinths, etc	m3	9
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3	Aprons	m3	5
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4	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	49
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

5	Ramps	m3	6
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6	Footings	m3	12
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7	Surface beds	m3	21
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8	Holes	m3	1
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9	Stub columns	m3	1
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Carried to Collection

R

Section No. 4

Section 4: Classroom - Grade R

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

10	Steps, urinal steps, cupboard platforms, etc	m3	1
<u>TEST BLOCKS</u>			
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	10
<u>MOVEMENT JOINTS, ETC</u>			
<u>Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces</u>			
12	10mm Joints exceeding 300mm high	m	86
<u>Saw cut joints</u>			
13	4 x 30mm Saw cuts in top of concrete	m	30
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete with wooden float finish</u>			
14	Ramps, etc	m2	8
15	Aprons, etc	m2	49
16	Slabs, etc	m2	9
<u>Rough formwork to sides</u>			
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	4
18	Sides of stub columns	m2	7
<u>REINFORCEMENT</u>			
<u>Mild tensile steel reinforcement to structural concrete work</u>			
19	10mm Diameter bars	t	1.00

Carried to Collection

R

Section No. 4
Section 4: Classroom - Grade R
Bill No. 2
Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

High tensile steel reinforcement to structural concrete work

20	12mm Diameter bars	t	1.00
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21	16mm Diameter bars	t	1.00
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Fabric reinforcement

22	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	138
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23	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	67
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Carried to Collection

R

Section No. 4
 Section 4: Classroom - Grade R
 Bill No. 2
 Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

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2	One brick walls	m2	110
<u>SUPERSTRUCTURE</u>			
<u>Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar</u>			
3	Half brick walls	m2	80
4	One brick walls	m2	182
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
5	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	265
6	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	993
<u>Concrete prestressed fabricated lintels</u>			
7	115 x 75mm Lintels in lengths not exceeding 3m	m	7
<u>Turning pieces</u>			
8	110mm Wide turning piece to lintels, etc	m	14
<u>Joint forming material in movement joints</u>			
9	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	18
<u>Galvanised hoop iron cramps, ties, etc</u>			
10	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	49

Carried to Collection

R

Section No. 4
Section 4: Classroom - Grade R
Bill No. 3
Masonry
REPAIRS & RENOVATIONS

FACE BRICKWORK

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

11	Extra over brickwork for face brickwork	m2	126
12	Extra over brickwork for face brickwork in foundation	m2	29
13	Half brickwall in facing in beamfilling pointed one side	m2	13
14	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	8

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

15	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	16
16	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	14
17	Coping on top of one brick wall	m	34

Interlocking paving

18	60mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 20mm sand founding layer and covered with sand layer and sweep into joints	m2	6
19	Weed-killing treatment of surface under paving	m2	6
20	15MPa Concrete edge beam size 100 x 100mm High	m	16

Carried to Collection

R

Section No. 4
Section 4: Classroom - Grade R
Bill No. 3
Masonry
REPAIRS & 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	30		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	86		

Carried to Collection

R

Section No. 4
Section 4: Classroom - Grade R
Bill No. 4
Waterproofing
REPAIRS & 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	165
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	8
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	12

Carried to Collection

R

Section No. 4
 Section 4: Classroom - Grade R
 Bill No. 5
 Roof Coverings, etc
REPAIRS & 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

Carried to Collection

Section No. 4
Section 4: Classroom - Grade R
Bill No. 6
Carpentry and Joinery
REPAIRS & RENOVATIONS

R

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.

Carried to Collection

Section No. 4

Section 4: Classroom - Grade R

Bill No. 6

Carpentry and Joinery

REPAIRS & 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

Carried to Collection

Section No. 4
Section 4: Classroom - Grade R
Bill No. 6
Carpentry and Joinery
REPAIRS & RENOVATIONS

R

**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 approximately 138m ² measured flat		Item
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Sawn softwood

2	50 x 228mm Bearers bolted to steel columns	m	18
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FASCIAS AND BARGE BOARDS

Nutec board or equal approved

3	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	59
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SKIRTINGS

Wrought meranti

4	19 x 76mm skirting with 19mm quarter round nailed to walls	m	86
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Carried to Collection

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Section No. 4

Section 4: Classroom - Grade R

Bill No. 6

Carpentry and Joinery

REPAIRS & 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	3
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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	6
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7	40mm Door 900 x 2032mm 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	1
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Section 4: Classroom - Grade R

Bill No. 6

Carpentry and Joinery

REPAIRS & 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 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	138
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	117
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Section No. 4
 Section 4: Classroom - Grade R
 Bill No. 7
 Ceilings, Partitions and Access Flooring
REPAIRS & RENOVATIONS

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Item No			Quantity	Rate	Amount
	<u>SECTION NO. 4</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	4		
	<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	7		
3	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	3		
	<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	3		
	Carried to Collection				
	Section No. 4				
	Section 4: Classroom - Grade R				
	Bill No. 9				
	Ironmongery				
	REPAIRS & RENOVATIONS				

SUNDRIES**Dorma or equal approved**

5	Stainless steel door stop type DDSS-SS-017 plugged	No	13
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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**

6	3mm Thick x 32mm wide plate with letters "CLASSROOM"	No	1
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7	3mm Thick x 32mm wide plate with letters "SICK ROOM"	No	1
---	--	----	---

"Union" or equal approved

8	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	1
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9	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	1
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10	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	1
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11	150 x 150mm Stainless steel plate engraved with "Tea" sign (St/Steel)	No	1
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12	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	1
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13	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1
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Carried to Collection**R**

Section No. 4

Section 4: Classroom - Grade R

Bill No. 9

Ironmongery

REPAIRS & RENOVATIONS

MATS

Squeegee or equal approved

- | | | | |
|----|--|----|---|
| 14 | 1 300 x 1 300 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 |
|----|--|----|---|

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

- | | | | |
|----|--|----|---|
| 15 | Pinning boards size 2400 x 1220mm high fixed to brickwork. Parrot Bulletin board aluminium frame or similar approved 2400 x1200mm 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 | 1 |
|----|--|----|---|

- | | | | |
|----|--|----|---|
| 16 | 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 | 2 |
|----|--|----|---|

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Section 4: Classroom - Grade R
Bill No. 9
Ironmongery
REPAIRS & RENOVATIONS

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Section No. 4
Section 4: Classroom - Grade R
Bill No. 10
Metalwork
REPAIRS & RENOVATIONS

STEEL GATES, SCREENS, ETC

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

11	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
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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

12	Frame for door size, 813 x 2 032mm high	No	6
13	Frame for door size, 900 x 2 032mm high	No	1

Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

14	Frame for door size, 813 x 2 032mm high	No	3
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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

15	Window size 533 x 654mm high	No	2
16	Window size 1000 x 900mm high	No	3

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Metalwork
REPAIRS & RENOVATIONS

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Metalwork
REPAIRS & RENOVATIONS

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INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	258
5	On narrow widths	m2	2

Cement plaster on concrete

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

6	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	3
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Section No. 4
Section 4: Classroom - Grade R
Bill No. 11
Plastering
REPAIRS & 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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Section 4: Classroom - Grade R

Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS & 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.

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	59
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	10
3	Extra over 100 x 100 x 0.6mm thick eaves gutter for stopped end	No	4

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Section 4: Classroom - Grade R

Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS & RENOVATIONS

4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	45
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	10
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	10
<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	30
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	30
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	15
<u>Extra over bulk excavation in earth for excavation in</u>			
11	Soft rock	m3	3
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	30
14	110mm Pipes laid in trenches (trenches elsewhere)	m	20
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	4
16	110mm Junction	No	3
17	110mm Access bend	No	2
18	110mm Access junction	No	2

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Section 4: Classroom - Grade R
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Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	4		
	<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	1		
	<u>"Vaal" or equal approved</u>				
22	Mini WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	2		
23	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	1		
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	4		
25	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		
	<u>WASTE UNIONS, ETC</u>				
26	32mm Basin waste union	No	5		
27	38mm Bath or sink waste union	No	1		
	<u>TRAPS ETC</u>				
28	40mm Flexi butyl rubber trap with reseal "P" trap	No	6		
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Plumbing and Drainage (Provisional)					
REPAIRS & RENOVATIONS					

TAPS, VALVES, ETC
Cobra Watertech of 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	1
30	Chrome plated basin mixer with aerated swivel outlet mounted on the basin. All items to be fully fitted with all necessary plumbing accessories.	No	5
31	15 x 350mm CP flexible connector	No	5
32	20mm Full way stop cock	No	10

SANITARY PLUMBING
HDPE pipes

33	50mm Pipes	m	50
34	50mm Pipes chased into brick walls	m	30
35	110mm Pipes	m	30

Extra over HDPE pipes for fittings

36	50mm Bend	No	12
37	50mm Access bend	No	12
38	50mm Junction	No	12
39	50mm Access junction	No	6
40	110mm Bend	No	10
41	110mm Access bend	No	3
42	110mm Socket	No	3
43	110mm Junction	No	3

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Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

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SLEEVES**HDPE sleeves for pipes not exceeding 100mm diameter**

57	Sleeve not exceeding 250mm long	No	5
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HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter

58	Sleeve not exceeding 250mm long	No	5
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 Section 4: Classroom - Grade R
 Bill No. 13
 Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

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ON METAL

Prepare and apply two coats bitumen paint

4	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	17
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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 frames	m2	24
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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	81
7	On steel members	m2	38
8	On steel columns	m	15

ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

9	On doors	m2	23
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Prepare and apply three coats varnish

10	On laminated beam	m2	10
11	On doors	m2	10

One coat pink wood primer and two coats clear polyurethane varnish

12	On skirting, rails, etc. not exceeding 300mm girth	m	86
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Section 4: Classroom - Grade R
Bill No. 15
Paintwork
REPAIRS & 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	218
2	Holes	m3	9

Extra over excavations in earth for excavation in:

3	Soft rock	m3	15
4	Hard rock	m3	7

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	52
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	591
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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 Section 5: Administration Block
 Bill No. 1
 Earthworks (Provisional)
REPAIRS & RENOVATIONS

<u>FILLING, ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	139	
<u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density</u>				
9	Under floors, steps, pavings, etc	m3	109	
<u>Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>				
10	Under floors, steps, pavings, etc	m3	104	
<u>Coarse river sand filling supplied by the contractor</u>				
11	Under floors etc	m3	17	
<u>Compaction of surfaces</u>				
12	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	346	
<u>Prescribed density tests on filling</u>				
13	"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>				
14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	346	
15	To bottoms and sides of trenches, etc	m2	174	
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Section 5: Administration Block

Bill No. 1

Earthworks (Provisional)

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Section 5: Administration Block

Bill No. 1

Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

1	Blinding	m3	2
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25 MPa Concrete in:

2	Plinths, etc	m3	2
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3	Aprons	m3	9
---	--------	----	---

4	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	85
---	---	---	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

5	Ramps	m3	3
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6	Footings	m3	34
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7	Surface beds	m3	52
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8	Holes	m3	2
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9	Stub columns	m3	1
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Section No. 5

Section 5: Administration Block

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

10	Slabs	m3	2
11	Steps, urinal steps, cupboard platforms, etc	m3	2
<u>TEST BLOCKS</u>			
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	15
<u>MOVEMENT JOINTS, ETC</u>			
<u>Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces</u>			
13	10mm Joints exceeding 300mm high	m	265
<u>Saw cut joints</u>			
14	4 x 30mm Saw cuts in top of concrete	m	91
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete with wooden float finish</u>			
15	Ramps, etc	m2	12
16	Aprons, etc	m2	85
17	Slabs, etc	m2	9
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Smooth formwork to sides</u>			
18	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	6
19	Sides of stub columns	m2	12

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Section No. 5
Section 5: Administration Block
Bill No. 2
Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

	<u>Smooth formwork to soffits</u>				
20	Isolated beams propped up not exceeding 3,5m high	m2	6		
	<u>REINFORCEMENT</u>				
	<u>Mild tensile steel reinforcement to structural concrete work</u>				
21	10mm Diameter bars	t	1.00		
	<u>High tensile steel reinforcement to structural concrete work</u>				
22	12mm Diameter bars	t	1.00		
23	16mm Diameter bars	t	1.00		
	<u>Fabric reinforcement</u>				
24	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	346		
25	Mesh reinforcement with mesh reference number 395 laid in concrete slabs, etc with 300mm wide side and end laps (measured net)	m2	6		
26	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	642		
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Section 5: Administration Block

Bill No. 2

Concrete, Formwork and Reinforcement

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Section 5: Administration Block

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

3	One and half brick walls	m2	18
<u>SUPERSTRUCTURE</u>			
<u>Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar</u>			
4	Half brick walls	m2	234
5	One brick walls	m2	303
6	One and half brick walls	m2	34
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
7	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,064
8	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,577
<u>Concrete prestressed fabricated lintels</u>			
9	115 x 75mm Lintels in lengths not exceeding 3m	m	19
<u>Turning pieces</u>			
10	110mm Wide turning piece to lintels, etc	m	29
11	220mm Wide turning piece to lintels, etc	m	10
<u>Joint forming material in movement joints</u>			
12	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	38
<u>Galvanised hoop iron cramps, ties, etc</u>			
13	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	85

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REPAIRS & RENOVATIONS

FACE BRICKWORK

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

14	Extra over brickwork for face brickwork	m2	243
15	Extra over brickwork for face brickwork in foundation	m2	61
16	Half brickwall in facing in beamfilling pointed one side	m2	24
17	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5
<u>Brick-on-edge header course coping, 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	39
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	27
20	Coping on top of one brick wall	m	41

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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	91		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	265		

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Waterproofing
REPAIRS & RENOVATIONS

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Waterproofing

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Waterproofing

REPAIRS & 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	416
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	24
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	16
5	Valley gutter 462mm girth four times bend	m	4

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Roof Coverings, etc

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Roof Coverings, etc

REPAIRS & 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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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 346m² measured flat

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Carpentry and Joinery

REPAIRS & RENOVATIONS

	<u>Sawn softwood</u>				
2	50 x 228mm laminated beam bolted to steel columns	m	33		
	<u>FASCIAS AND BARGE BOARDS</u>				
	<u>Nutec board or equal approved</u>				
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	102		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
4	19 x 76mm Skirting with 19mm quarter round nailed to walls	m	255		
	<u>DOORS</u>				
	<u>NOTE:</u>				
	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.				
	<u>Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames</u>				
5	40mm Door 813 x 2032mm high	No	14		
6	40mm Door 900 x 2032mm high	No	1		
7	40mm Door 1300 x 2032mm high	No	1		
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	REPAIRS & RENOVATIONS				

Door grills, etcExtra 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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Carpentry and Joinery

REPAIRS & 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 | 287 |
| 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 branderling at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 59 |
|---|--|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 329 |
|---|--------------------------------|---|-----|

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 Bill No. 7
 Ceilings, Partitions and Access Flooring
REPAIRS & RENOVATIONS

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Bill No. 7

Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

REPAIRS & RENOVATIONS

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	<u>SECTION NO. 5</u>			
	<u>BILL NO. 8</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	239	
	<u>2,5mm non-slip vinyl floor sheeting laid in two colour pattern on cement screed (elsewhere)</u>			
2	On floors	m2	48	
	<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	287	
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	Floor Coverings, Wall linings, etc			
	REPAIRS & RENOVATIONS			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</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	16	
	<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	15	
	<u>"Cisa"or equal approved</u>			
3	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	2	
	<u>SUNDRIES</u>			
	<u>"Solid"or equal approved</u>			
4	19mm Diameter chromium plated towel rail 600mm long incl. end brackets	No	3	
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	Ironmongery			
	REPAIRS & RENOVATIONS			

DOOR CLOSERS AND FLOOR SPRINGS**Yale or equal approved**

5	Y202RC or equal approved heavy duty door closer with cover fixed to metal	No	3
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PUSH PLATES AND KICK PLATES**Stainless steel or equal approved**

6	Stainless steel kick plates 300 x 813 plate	No	6
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SUNDRIES**Dorma or equal approved**

7	Stainless steel door stop type DDSS-SS-017 plugged	No	20
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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 "STAFF ROOM"	No	1
9	3mm Thick x 32mm wide plate with letters "KITCHEN"	No	1
10	3mm Thick x 32mm wide plate with letters "PASTORAL CARE ROOM"	No	1
11	3mm Thick x 32mm wide plate with letters "STOCK/STORE ROOM"	No	1
12	3mm Thick x 32mm wide plate with letters "PRINT ROOM"	No	1
13	3mm Thick x 32mm wide plate with letters "KITCHEN"	No	1
14	3mm Thick x 32mm wide plate with letters "RECEPTION GENERAL OFFICE"	No	1

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REPAIRS & RENOVATIONS

15	3mm Thick x 32mm wide plate with letters "STRONG ROOM"	No	1		
16	3mm Thick x 32mm wide plate with letters "PRINCIPAL"	No	1		
17	3mm Thick x 32mm wide plate with letters "DEPUTY PRINCIPAL 1"	No	1		
18	3mm Thick x 32mm wide plate with letters "DEPUTY PRINCIPAL 2"	No	1		
19	3mm Thick x 32mm wide plate with letters "SICK ROOM 1"	No	1		
20	3mm Thick x 32mm wide plate with letters "SICK ROOM 2"	No	1		
<u>LETTERS, NAMEPLATES, ETC</u>					
<u>"Union"or equal approved</u>					
21	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	1		
22	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	1		
23	"Code AL5066-E14" Natural anodised aluminium plate with paraplegic pictogram	No	1		
24	150 x 150mm Stainless steel plate engraved with "Tea" sign (St/Steel)	No	1		
				R	
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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

25	Blinds for window size 1 000 x 900mm high	No	9
26	Blinds for window size 1 000 x 1 200mm high	No	16

BATHROOM FITTINGS**Frank or equal approved**

27	303 x 156 x 141mm high Surface mounted stainless steel vandal and theft free toilet roll holder	No	5
28	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	3
29	304 x 100 x 134mm high Manually operated surface mounted stainless steel vandal and theft free soap dispenser with spindle system	No	3
30	300 x 305 x 134mm high Manually operated surface mounted stainless steel vandal and theft free paper towel dispenser	No	3
31	203mm Diameter polished stainless steel towel ring fitted as per manufacturer's instructions	No	3

"Vaal Paragon" or equal approved

32	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	1
33	750 long x 80mm Projecting stainless steel straight grab rail fixed in position	No	1
34	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	1

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Ironmongery

REPAIRS & RENOVATIONS

SUNDRIES

35	Stainless steel hat and coat hook with rubber buffer	No	2
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MATS

Squeegee or equal approved

36	1 300 x 2 150 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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37	1 283 x 3 400 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

38	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	4
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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

39	Parrot Bulletin board aluminium frame or similar approved 2400x1200mm fixed to brickwall. 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
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40	Parrot Bulletin board aluminium frame or similar approved 1500 x1200mm fixed to brickwalls. 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	3
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Ironmongery

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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 1626 x 2066mm high overall	No	2
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SUNDRY STEELWORK

Welded steel columns, etc.

2	101.6 x 4.5mm CHS column size approximately 4000mm high with 200 x 200 x 10mm thick base plate with four holes drilled and U shaped holding bracket size 100 x 60 x 4,5mm thick formed of rectangular hollow section 200mm long twice drilled	No	9
3	100mm Long x 10mm diameter bolt and nut with two (2) washers	No	18
4	80mm Long x 10mm wide rawl bolt fixed	No	36

Welded steel beam, etc

5	152 x 152 x 4.5 SHS beam welded to column	m	35
6	75 x 50 x 6mm mild steel lipped channel welded to beam	m	35
7	10 mm Diameter x 85 mm long expansion bolt	No	18

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Metalwork
REPAIRS & RENOVATIONS

STEEL HANDRAILS, BALUSTRADES, ETC

Welded balustrading

8	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	20
9	Extra over for L-intersection of horizontal balustrades	No	4
10	Extra over for flat closed end	No	4
11	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

12	Frame for door size, 813 x 2032mm high	No	10
13	Frame for door size, 900 x 2032mm high	No	1

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

14	Window size, 500 x 600mm high	No	3
15	Window size, 1000 x 900mm high	No	9
16	Window size, 1000 x 1200mm high	No	16

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REPAIRS & RENOVATIONS

STEEL STRONGROOM DOORS, VENTILATORS, ETC**Strongroom doors etc. suitable for 230mm walls fixed to brickwork or concrete**

17	Mutual Austen Safes DS50/2/HD SABS Category 2 or equal approved (Heavy Duty) right hand strongroom door with 2 x 7-lever security keylock, overall size 850 x 1860mm high with and including powder coated finish	No	1
18	Strongroom door stop plugged	No	1
19	Double ended ventilator	No	2

ALUMINIUM WINDOWS**Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities**

20	Window size, 500 x 600mm high	No	3
21	Window size, 1000 x 900mm high	No	9
22	Window size, 1000 x 1200mm high	No	16

ALUMINIUM VIEW PANEL WINDOWS**Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities**

23	View panel size 1000 x 990mm high	No	1
24	Purpose made window, size 1250 x 990mm high overall (Sliding window)	No	2

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ALUMINIUM WINDOWS, DOORS, ETC.

Standard natural aluminium doors complete with subframes, ironmongery and floor springs, 6mm laminated safety glass, etc. sealing all round with silicone and fixing to brickwork or concrete

25	Double door size 1 600 x 2 100mm high (D02)	No	2
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ALUMINIUM DOOR LOUVRE

Approved fixed louvre door units screwed into timber frames

26	Purpose made louvre unit for 300 x 300mm high opening	No	2
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Metalwork

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Metalwork

REPAIRS & RENOVATIONS

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	287
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INTERNAL PLASTER

Cement plaster on brickwork

6	On walls	m2	795
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7	On narrow widths	m2	3
---	------------------	----	---

Cement plaster on concrete

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

8	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	32
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Plastering
REPAIRS & 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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Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS & RENOVATIONS

R

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	102
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 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	72
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	16
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	16
<u>SOIL DRAINAGE</u>			
7	Excavation not exceeding 1m deep for drain trenches	m3	45
8	Excavation exceeding 1m and not exceeding 2m deep for drain trenches	m3	35
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	45
<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	45
14	110mm Pipes laid in trenches (trenches elsewhere)	m	50
<u>Extra over HDPE pipes for fittings</u>			
15	110mm Bend	No	5
16	110mm Junction	No	5
17	110mm Access bend	No	5
18	110mm Access junction	No	5

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	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	4		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>"Franke" stainless steel</u>				
21	Franke Trendline Model or equal approved 1200 x5 35 DEB Grade 304 18/10 polished stainless steel double end bowl drop on sink (Code: 312081), overall size 1200 x 535mm with two 343 x 410 x 140mm deep bowls, fitted onto cupboard (elsewhere specified) including PVC traps (traps elsewhere specified)	No	1		
	<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	6		
23	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		
24	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		
25	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	1		
26	Vaal Sanitaryware 600 x 385 x 380mm Lavatera white vitreous china wall mounted top inlet urinal (code: 705426) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated top inlet spreader spreader (code: 7054Z1), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (code: 8127Z0)	No	2		
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WASTE UNIONS, ETC

27	32mm Basin waste union	No	7
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28	38mm Bath or sink waste union	No	1
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TRAPS ETC

29	40mm Flexi butyl rubber trap with reseal "P" trap	No	8
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TAPS, VALVES, ETC**Cobra Watertech of 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	1
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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	7
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32	15 x 350mm CP flexible connector	No	5
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33	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	2
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34	20mm Full way stop cock	No	13
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SANITARY PLUMBING**HDPE pipes**

35	50mm Pipes	m	60
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36	50mm Pipes chased into brick walls	m	35
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37	110mm Pipes	m	50
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Extra over HDPE pipes for fittings

38	50mm Bend	No	14
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39	50mm Access bend	No	14		
40	50mm Junction	No	14		
41	50mm Access junction	No	14		
42	110mm Bend	No	10		
43	110mm Access bend	No	10		
44	110mm Socket	No	10		
45	110mm Junction	No	10		
46	110mm Reducing junction	No	10		
47	110mm Access junction	No	10		
48	110mm Two-way vent valve	No	5		
49	110mm Pan connector	No	5		
	<u>Sundries</u>				
50	Testing water pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class "O" copper pipes:</u>				
51	15mm Pipes chased in brickwork	m	60		
52	22mm Pipes chased in brickwork	m	40		
53	28mm Pipes	m	30		
	<u>Extra over class "O" copper pipes for capillary fittings</u>				
54	15mm Fittings	No	20		
55	22mm Fittings	No	15		
56	28mm Fittings	No	15		
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	<u>Copper flexible service pipes</u>				
57	15mm Service pipe 340mm girth	No	2		
	<u>Sundries</u>				
58	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	1		
	<u>Sundries</u>				
59	Testing water pipe system		Item		
	<u>ELECTRIC WATER HEATERS</u>				
	<u>"Kwikot" or equal approved</u>				
60	Kwikot 250 Litre Standard 600 Dual electric water heater (Code : EF-250-2D) complying with SABS 151-2002, overall size 1650 x 535mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1820 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1940) and 22mm pipe work including two 22mm vacuum breakers (Code : KHN4.200CX) installed on hot and cold water supply. Installation to include a 22mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.114), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No	1		
	<u>SLEEVES</u>				
	<u>HDPE sleeves for pipes not exceeding 100mm diameter</u>				
61	Sleeve not exceeding 250mm long	No	1		
	<u>HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>				
62	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**

63	200mm Reinforced concrete slab, beam, wall, etc	No	1		
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Plumbing and Drainage (Provisional)

REPAIRS & 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 59

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 46

ON METAL

Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

6 On pressed steel door frames m2 22

7 On steel members m2 31

8 On steel columns m 27

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 71

Prepare and apply two coats bitumen paint

10 On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing m2 35

ON WOOD

One coat pink wood primer and two coats clear polyurethane varnish

11 On skirtins, rails, etc. not exceeding 300mm girth m 30

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Paintwork

REPAIRS & RENOVATIONS

12	<p><u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u></p> <p>On doors</p>	m2	40	
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Paintwork

REPAIRS & 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	181
2	Holes	m3	9

Extra over excavations in earth for excavation in:

3	Soft rock	m3	18
4	Hard rock	m3	9

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	88
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	615
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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Bill No. 1

Earthworks

REPAIRS & RENOVATIONS

<u>FILLING, ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	99	
<u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density</u>				
9	Under floors, steps, pavings, etc	m3	115	
<u>Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>				
10	Under floors, steps, pavings, etc	m3	110	
<u>Coarse river sand filling supplied by the contractor</u>				
11	Under floors etc	m3	18	
<u>Compaction of surfaces</u>				
12	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	368	
<u>Prescribed density tests on filling</u>				
13	"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>				
14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	368	
15	To bottoms and sides of trenches, etc	m2	145	
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Earthworks

REPAIRS & 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

15 MPa Concrete in:

1	Blinding	m3	2
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25 MPa Concrete in:

2	Plinths, etc	m3	2
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3	Aprons	m3	8
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4	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	84
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

5	Ramps	m3	4
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6	Footings	m3	30
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7	Holes	m3	2
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8	Stub columns	m3	1
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9	Surface beds	m3	48
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Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

10	Steps, urinal steps, cupboard platforms, etc	m3	1
<u>TEST BLOCKS</u>			
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	15
<u>MOVEMENT JOINTS, ETC</u>			
<u>Expansion joints with bitumen impregnated fibreboard between vertical concrete and brick surfaces</u>			
12	10mm Joints exceeding 300mm high	m	230
<u>Saw cut joints</u>			
13	4 x 30mm Saw cuts in top of concrete	m	160
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete with wooden float finish</u>			
14	Ramps, etc	m2	12
15	Aprons, etc	m2	84
16	Slabs, etc	m2	9
<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	24
18	Sides of stub columns	m2	12

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Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

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

19	10mm Diameter bars	t	1.00		
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High tensile steel reinforcement to structural concrete work

20	12mm Diameter bars	t	1.00		
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21	16mm Diameter bars	t	1.00		
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Fabric reinforcement

22	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	368		
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23	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	145		
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Concrete, Formwork and Reinforcement

REPAIRS & 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	40
2	One brick walls	m2	154

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

3	Half brick walls	m2	96
4	One brick walls	m2	429

BRICKWORK SUNDRIES**Brickwork reinforcement**

5	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	423
6	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	2,077

Concrete prestressed fabricated lintels

7	115 x 75mm Lintels in lengths not exceeding 3m	m	22
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Turning pieces

8	165mm Wide turning piece to lintels etc	m	18
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Bill No. 3

Masonry

REPAIRS & RENOVATIONS

<u>Joint forming material in movement joints</u>				
9	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m	30	
<u>Galvanised hoop iron cramps, ties, etc</u>				
10	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	80	
<u>FACE BRICKWORK</u>				
<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>				
11	Extra over brickwork for face brickwork	m2	2,427	
12	Extra over brickwork for face brickwork in foundation	m2	50	
13	Half brick wall in face brickwork in beamfilling pointed one side	m2	24	
<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
14	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	24	
15	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	18	
16	Coping on top of one brick wall	m	35	
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Masonry

REPAIRS & 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	160		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	230		

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Waterproofing

REPAIRS & 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	442
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	26
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	20

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Roof Coverings, etc

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Roof Coverings, etc

REPAIRS & 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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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 & 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 Nutrition Centre approximately 368m² measured flat

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Carpentry and Joinery

REPAIRS & RENOVATIONS

	<u>Sawn softwood</u>				
2	50 x 228mm laminated beam bolted to steel columns	m	35		
	<u>FASCIAS AND BARGE BOARDS</u>				
	<u>Nutec board or equal approved</u>				
3	9 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	100		
	<u>Wrought Close-Grained hardwood</u>				
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
4	19 x 76mm skirtings with 19mm quarter round nailed to walls	m	44		
	<u>DOORS</u>				
	<u>NOTE:</u>				
	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.				
	<u>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</u>				
5	40mm Single door, size 813 x 2032mm high	No	1		
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	<u>Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames</u>				
6	40mm Door 813 x 2032mm high	No	11		
7	40mm Door 900 x 2032mm high	No	1		
	<u>Door grills, etc</u>				
	<u>Extra over for 300 x 300mm framed opening for aluminium unit (louvre unit elsewhere)</u>				
8	300 x 300mm aluminium louvre	m	1		
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Carpentry and Joinery

REPAIRS & 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	368
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 Ceilings, Partitioning and Access Flooring
REPAIRS & 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	368
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	295
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 Ceilings, Partitioning and Access Flooring
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Ceilings, Partitioning and Access Flooring

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Ceilings, Partitioning and Access Flooring

REPAIRS & RENOVATIONS

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	<u>SECTION NO. 6</u>			
	<u>BILL NO. 8</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	18	
	<u>2,5mm non-slip vinyl floor sheeting laid in two colour pattern on cement screed (elsewhere)</u>			
2	On floors	m2	120	
	<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	138	
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	Floor Coverings and Access Flooring			
	REPAIRS & RENOVATIONS			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</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	
2	150mm 8052-150 Brass flush bolt with keep fixed to metal.	No	4	
3	150mm 8052-150 Brass flush bolt with keep let into concrete.	No	4	
	<u>LOCKS</u>			
	<u>"Solid" or equal approved</u>			
4	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	9	
	<u>"Cisa" or equal approved</u>			
5	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	5	
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SUNDRIES
Dorma or equal approved

6	Stainless steel door stop type DDSS-SS-017 plugged "	No	18
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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

7	3mm Thick x 32mm wide plate with letters "DINNING ROOM"	No	1
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8	3mm Thick x 32mm wide plate with letters "NUTRITIONAL CENTRE"	No	1
---	---	----	---

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

"Union" or equal approved

10	"Code AL5022-E10" Natural anodised aluminium plate with male symbol	No	1
----	---	----	---

11	"Code AL5022-E11" Natural anodised aluminium plate with female symbol	No	1
----	---	----	---

12	150 x 150mm Stainless steel plate engraved with "Tea" sign (St/Steel)	No	1
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13	"Code AL5022-E10" Natural anodised aluminium plate with fire extinguisher symbol	No	2
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14	"Code AL5022-E10" Natural anodised aluminium plate with fire hose reel symbol	No	1
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STEEL LOCKERS

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Ironmongery

REPAIRS & RENOVATIONS

	<u>Greenfield steel lockers with standard backed enamel finish:</u>				
15	Bank of 2 x G23 lockable lockers each 305 x 457 x 1752mm high bolted together complete with 60mm padlock	No	12		
	<u>MATS</u>				
	<u>Squeegee or equal approved</u>				
16	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		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
	<u>Carpet pinning boards comprising aluminium frame, pen tray and fixing components included with round plastic corners installed according to manufacturer's details.</u>				
	<u>"Vitrex" or equal approved</u>				
17	Pinning boards size 2400 x 1220mm high fixed to brickwork	No	2		
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Ironmongery

REPAIRS & 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 | No | 1 |
| 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 1626 x 2066mm high overall | No | 4 |

SUNDRY STEELWORK

Welded steel columns, etc.

- | | | | |
|---|---|----|----|
| 3 | 101.6 x 4.5mm CHS column size approximately 4000mm high with 200 x 200 x 10mm thick base plate with four holes drilled and U shaped holding bracket size 100 x 60 x 4.5mm thick formed of rectangular hollow section 200mm long twice drilled | No | 9 |
| 4 | 100mm Long x 10mm diameter bolt and nut with two (2) washers | No | 18 |

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Metalwork

REPAIRS & RENOVATIONS

5	8mm Long x 10mm wide rawl bolt fixed	No	36
	<u>Welded steel beam, etc</u>		
6	152 x 152 x 4.5 SHS beam welded to column	m	33
7	75 x 50 x 6mm mild steel lipped channel welded to beam	m	33
8	10 mm Diameter x 75 mm long expansion bolt	No	40
	<u>STEEL HANDRAILS, BALUSTRADES, ETC</u>		
	<u>Welded balustrading</u>		
9	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	40
10	Extra over for L-intersection of horizontal balustrades	No	10
11	Extra over for flat closed end	No	10
12	8mm Expansion bolt	No	40
	<u>PRESSED STEEL DOOR FRAMES</u>		
	<u>Double rebated pressed frames suitable for half brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf</u>		
13	Frame for door size, 813 x 2032mm high	No	6
14	Frame for door size, 900 x 2032mm high	No	1
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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

15	Window size, 500 x 600mm high	No	7
16	Window size, 600 x 900mm high	No	13
17	Window size, 1500 x 600mm high	No	4
18	Window size, 1500 x 1000mm high	No	3

STEEL ROLLER SHUTTERS, ETC

Galvanised steel roller shutters with 76mm slats, fixed to brickwork or concrete

19	Manual push-up slatted roller shutter for 1 500 x 1 000mm high opening	No	1
20	Manual push-up slatted roller shutter for 2 185 x 2 400mm high opening	No	1

ALUMINIUM WINDOWS

Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities

21	Window size, 500 x 600mm high	No	7
22	Window size, 600 x 900mm high	No	13
23	Window size, 1500 x 600mm high	No	4
24	Window size, 1500 x 1000mm high	No	3

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Metalwork

REPAIRS & RENOVATIONS

ALUMINIUM WINDOWS, DOORS, ETC.

Standard natural aluminium doors complete with subframes, ironmongery and floor springs, 6mm laminated safety glass, etc. sealing all round with silicone and fixing to brickwork or concrete

25	Double door size 1 600 x 2 100mm high (D02)	No	4
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ALUMINIUM DOOR LOUVRE

Approved fixed louvre door units screwed into timber frames

26	Purpose made louvre unit for 300 x 300mm high opening	No	1
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Metalwork

REPAIRS & RENOVATIONS

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Metalwork

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Bill No. 10

Metalwork

REPAIRS & 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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Plastering

REPAIRS & 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)

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Scarify or vacublast concrete surface to remove all 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)

2	On screeded floors and landings	m2	127
3	On 100mm high coved skirting	m	73

SELF LEVELLING FLOOR COMPOUND

5mm thick commercial grade self-levelling screed (over 25MPA) and moisture barrier laid in accordance with the manufacturer's instructions

4	On floors	m2	138
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INTERNAL PLASTER

Cement plaster on brickwork

5	On walls	m2	690		
6	On narrow widths	m2	3		

Cement plaster on concrete

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

7	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	12		
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Plastering

REPAIRS & 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 & RENOVATIONS

R

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 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	100
2	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	12
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 & RENOVATIONS

4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	54
5	Extra over 100 x 0.6mm rainwater pipe for bend	No	12
6	Extra over 100 x 0.6mm rainwater pipe for shoe	No	12
<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	35
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	40
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	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	110
14	110mm Pipes laid in trenches (trenches elsewhere)	m	30
<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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REPAIRS & RENOVATIONS

	<u>HDPE gulleys</u>				
19	110mm Gulley not exceeding 750mm deep	No	4		
	<u>Sundries</u>				
20	Testing soil drainage system		Item		
	<u>SANITARY FITTINGS</u>				
	<u>"Franke" stainless steel</u>				
21	Franke Trendline Model or equal approved 1200 x 535 DEB Grade 304 18/10 polished stainless steel double end bowl drop on sink (Code: 312081), overall size 1200 x 535mm with two 343 x 410 x 140mm deep bowls, fitted onto cupboard (elsewhere specified) including PVC traps (traps elsewhere specified)	No	3		
22	Franke Trendline Model or equal approved 1 030 x 440 x 385mm double compartment mounted wash trough on and including 25.4 x 25.4 square metal tube gallows brackets with front let into brickwork.	No	2		
	<u>"Vaal" or equal approved</u>				
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	3		
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	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		
26	Paraplegic WC pan with double flap heavy duty plastic seat (flush valve and flush pipe elsewhere)	No	1		
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WASTE UNIONS, ETC

27	32mm Basin waste union	No	4
28	38mm Bath or sink waste union	No	5

TRAPS ETC

29	40mm Rubber deep seal combination "P" trap for double bowl sink.	No	5
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TAPS, VALVES, ETC**Cobra Watertech of 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
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	4
32	15 x 350mm CP flexible connector	No	3
33	20mm Full way stop cock	No	12

SANITARY PLUMBING**HDPE pipes**

34	50mm Pipes	m	45
35	50mm Pipes chased into brick walls	m	40
36	110mm Pipes	m	30

Extra over HDPE pipes for fittings

37	50mm Bend	No	10
38	50mm Access bend	No	10
39	50mm Junction	No	10

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REPAIRS & RENOVATIONS AT GOAKGANYA PRIMARY

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40	50mm Access junction	No	8
41	110mm Bend	No	9
42	110mm Access bend	No	3
43	110mm Socket	No	3
44	110mm Junction	No	3
45	110mm Reducing junction	No	3
46	110mm Access junction	No	3
47	110mm Two-way vent valve	No	3
48	110mm Pan connector	No	3

Sundries

49	Testing water pipe system		Item
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WATER SUPPLIES

Class "O" copper pipes:

50	15mm Pipes chased in brickwork	m	40
51	22mm Pipes chased in brickwork	m	40
52	28mm Pipes	m	30

Extra over class "O" copper pipes for capillary fittings

53	15mm Fittings	No	15
54	22mm Fittings	No	15
55	28mm Fittings	No	10

Copper flexible service pipes

56	15mm Service pipe 340mm girth	No	2
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	<u>Sundries</u>				
57	80mm Meter and valve box including brick chamber below not exceeding 1mm deep internally	No	1		
	<u>Testing</u>				
58	Testing water pipe system		Item		
	<u>FLOOR DRAIN</u>				
	<u>Rofo Engineering or equal approved</u>				
59	Rofo Engineering R-125H NW50 or equal approved Square Flange Full Flow Floor Trap manufactured from stainless steel 304, complete. Installed as per manufacturer specifications	No	1		
	<u>ELECTRIC WATER HEATERS</u>				
	<u>"Kwikot" or equal approved</u>				
60	Kwikot 250 Litre Standard 600 Dual electric water heater (Code : EF-250-2D) complying with SABS 151-2002, overall size 1650 x 535mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1820 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1940) and 22mm pipe work including two 22mm vacuum breakers (Code : KHN4.200CX) installed on hot and cold water supply. Installation to include a 22mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.114), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No	1		
	<u>SLEEVES</u>				
	<u>HDPE sleeves for pipes not exceeding 100mm diameter</u>				
61	Sleeve not exceeding 250mm long	No	1		
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<u>HDPE sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>			
62	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>			
63	200mm Reinforced concrete slab, beam, wall, etc	No	1
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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

- | | | | |
|---|--|----|----|
| 3 | 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 | 46 |
|---|--|----|----|

ON METAL

Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint

- | | | | |
|---|------------------------------|----|----|
| 4 | On pressed steel door frames | m2 | 14 |
| 5 | On steel beams | m2 | 58 |
| 6 | On steel columns | m | 27 |

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

- | | | | |
|---|--|----|-----|
| 7 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 146 |
|---|--|----|-----|

Prepare and apply two coats bitumen paint

- | | | | |
|---|---|----|----|
| 8 | On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing | m2 | 35 |
|---|---|----|----|

ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

- | | | | |
|---|----------|----|----|
| 9 | On doors | m2 | 30 |
|---|----------|----|----|

One coat pink wood primer and two coats clear polyurethane varnish

- | | | | |
|----|----------|----|---|
| 10 | On doors | m2 | 3 |
|----|----------|----|---|

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Paintwork

REPAIRS & RENOVATIONS

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Paintwork

REPAIRS & 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	87
2	Holes	m3	24

Extra over excavations in earth for excavation in:

3	Soft rock	m3	9
4	Hard rock	m3	4

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	12
---	--	----	----

Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	258
---	--	----	-----

Keeping excavations free of water

7	Keeping excavations free of water		Item
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Earthworks (Provisional)

REPAIRS & RENOVATIONS

FILLING, ETC

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

8	Backfilling to trenches, holes, etc	m3	49
---	-------------------------------------	----	----

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

9	Under floors, steps, pavings, etc	m3	57
---	-----------------------------------	----	----

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

10	Under floors, steps, pavings, etc	m3	52
----	-----------------------------------	----	----

Coarse river sand filling supplied by the contractor

11	Under floors etc	m3	9
----	------------------	----	---

Compaction of surfaces

12	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	172
----	---	----	-----

Prescribed density tests on filling

13	"Modified AASHTO Density" test	No	10
----	--------------------------------	----	----

SOIL POISONING AND PROTECTION AGAINST TERMITES

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

14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	172
----	--	----	-----

15	To bottoms and sides of trenches, etc	m2	255
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Earthworks (Provisional)

REPAIRS & RENOVATIONS

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Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

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

25 MPa Concrete in:

2	Plinths, etc	m3	2
---	--------------	----	---

3	Aprons	m3	5
---	--------	----	---

4	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:

5	Ramps	m3	2
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6	Footings	m3	12
---	----------	----	----

7	Holes	m3	2
---	-------	----	---

8	Stub columns	m3	1
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9	Surface beds	m3	26
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Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

TEST BLOCKS

- 10 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 10

MOVEMENT JOINTS, ETC

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

- 11 10mm Joints exceeding 300mm high

m 76

Saw cut joints

- 12 4 x 30mm Saw cuts in top of concrete

m 46

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

- 13 Ramps, etc

m2 6

- 14 Aprons, etc

m2 66

- 15 Slabs, etc

m2 9

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

- 16 Edges, risers, ends and reveals not exceeding 300mm high or wide

m 6

- 17 Sides of stub columns

m2 8

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Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

REINFORCEMENT

Reinforcement

Mild tensile steel reinforcement to structural concrete work

18	10mm Diameter bars	t	1.00
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High tensile steel reinforcement to structural concrete work

19	12mm Diameter bars	t	1.00
----	--------------------	---	------

20	16mm Diameter bars	t	1.00
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Fabric reinforcement

21	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	172
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22	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	70
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Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

SUPERSTRUCTURE

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

3	Half brick walls	m2	10
4	One brick walls	m2	224

BRICKWORK SUNDRIES

Brickwork reinforcement

5	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	44
6	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,224

Concrete prestressed fabricated lintels

7	115 x 75mm Lintels in lengths not exceeding 3m	m	3
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Turning pieces

8	110mm Wide turning piece to lintels, etc	m	18
---	--	---	----

Joint forming material in movement joints

9	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	18
---	--	----	----

Galvanised hoop iron cramps, ties, etc

10	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	54
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Bill No. 3

Masonry

REPAIRS & RENOVATIONS

FACE BRICKWORK

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

11	Extra over brickwork for face brickwork	m2	162
12	Extra over brickwork for face brickwork in foundation	m2	52
13	Half brickwall in facing in beamfilling pointed one side	m2	20
<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>			
14	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	20
15	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	18
16	Coping on top of one brick wall	m	45

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Masonry

REPAIRS & 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	46
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	76

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Waterproofing
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Bill No. 4

Waterproofing

REPAIRS & 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	206
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	12
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	12

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Roof Coverings

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Roof Coverings

REPAIRS & 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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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 Media Centre approximately 172m² measured flat

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Carpentry and Joinery

REPAIRS & RENOVATIONS

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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 "LI"	m	79
---	--	---	----

SKIRTINGS

Wrought meranti

4	19 x 76mm Skirtings with 19mm quarter round nailed to walls	m	73
---	---	---	----

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	2
---	---	----	---

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	2
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REPAIRS & RENOVATIONS

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		
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Carpentry and Joinery

REPAIRS & RENOVATIONS

INSULATION, ETC**Fibreglass insulation**

- | | | | |
|---|---|----|-----|
| 1 | 100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brander, etc, all as per manufacturers instructions | m2 | 135 |
|---|---|----|-----|

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 brander at 400mm centres in one direction and around edges where required for fixing cornices, brander spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer | m2 | 135 |
|---|--|----|-----|

- | | | | |
|---|--|----|---|
| 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 brander at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | m2 | 37 |
|---|--|----|----|

Cornices

- | | | | |
|---|--------------------------------|---|-----|
| 5 | 76mm Gypsum coved trim cornice | m | 111 |
|---|--------------------------------|---|-----|

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Ceilings, Partitions and Access Flooring

REPAIRS & 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 "WORK ROOM"	No	1
6	3mm Thick x 32mm wide plate with letters "STORE ROOM"	No	1
7	3mm Thick x 32mm wide plate with letters "MEDIA CENTRE"	No	1

"Union" or equal approved

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

STEEL CUPBOARDS

Approved steel lockers with standard baked enamel finish

10	Industrial double door steel cupboard 910 x 610 x 2134mm high with five shelves	No	1
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Bill No. 9

Ironmongery

REPAIRS & RENOVATIONS

**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

- 11 Parrot Bulletin board aluminium frame or similar approved 2400x1200mm fixed to brickwall. 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.

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Ironmongery
REPAIRS & RENOVATIONS

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3	Extra over for flat closed end	No	4
4	80mm Long x 10mm wide rawl bolt fixed	No	32
<u>SUNDRY METALWORK</u>			
<u>Welded steel columns, etc.</u>			
5	101.6 x 4.5mm CHS column size approximately 4000mm high with 200 x 200 x 10mm thick base plate with four holes drilled and U shaped holding bracket size 100 x 60 x 4,5mm thick formed of rectangular hollow section 200mm long twice drilled	No	6
6	100mm Long x 10mm diameter bolt and nut with two (2) washers	No	24
7	85mm Long x 10mm wide rawl bolt fixed	No	12
<u>Welded steel beam, etc</u>			
8	152 x 152 x 4.5 SHS beam welded to column	m	22
9	75 x 50 x 6mm mild steel lipped channel welded to beam	m	22
10	10 mm Diameter x 75 mm long expansion bolt	No	10

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Section No. 7
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Bill No. 10
Metalwork
REPAIRS & RENOVATIONS

STEEL GATES, SCREENS, ETC

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

11	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	1
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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

12	Frame for door size, 813 x 2 032mm high	No	1
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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

13	Frame for door size, 813 x 2 032mm high	No	2
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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

14	Window size 1000 x 900mm high	No	4
15	Window size 1 000 x 1 200mm high	No	14

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Bill No. 10

Metalwork

REPAIRS & RENOVATIONS

ALUMINIUM WINDOWS

Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities

16	Window size 1000 x 900mm high	No	4
17	Window size 1 000 x 1 200mm high	No	14

ALUMINIUM DOOR LOUVRE

Approved fixed louvre door units screwed into timber frames

18	Purpose made louvre unit for 300 x 300mm high opening	No	1
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Metalwork

REPAIRS & 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	135
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INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	220
---	----------	----	-----

5	On narrow widths	m2	2
---	------------------	----	---

**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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Section 7: Media Centre
Bill No. 11
Plastering
REPAIRS & RENOVATIONS

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	<u>SECTION NO. 7</u>			
	<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	79	
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 stoped end	No	4	
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	REPAIRS & RENOVATIONS			

REPAIRS & RENOVATIONS AT GOAKGANYA 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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Section 7: Media Centre

Bill No. 13

Plumbing and Drainage (Provisional)

REPAIRS & RENOVATIONS

ON FIBRE-CEMENT

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

3 On ceilings and cornices m2 37

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

4 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 36

ON METAL

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 frames m2 8

6 On steel beam m2 19

7 On steel column m 15

Prepare and apply two coats bitumen paint

8 On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing m2 28

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 108

ON WOOD

Prepare, stop and apply one coat wood primer and two coats PVA paint

10 On doors m2 7

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Bill No. 14

Paintwork

REPAIRS & RENOVATIONS

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Section 7: Media Centre

Bill No. 14

Paintwork

REPAIRS & 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	83
2	Holes	m3	20

Extra over excavations in earth for excavation in:

3	Soft rock	m3	6
4	Hard rock	m3	3

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	12
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	242
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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 Earthworks (Provisional)
REPAIRS & RENOVATIONS

<u>FILLING, ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	46	
<u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 97% Mod AASHTO to density</u>				
9	Under floors, steps, pavings, etc	m3	49	
<u>Earth filling of G6 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>				
10	Under floors, steps, pavings, etc	m3	44	
<u>Coarse river sand filling supplied by the contractor</u>				
11	Under floors etc	m3	7	
<u>Compaction of surfaces</u>				
12	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	146	
<u>Prescribed density tests on filling</u>				
13	"Modified AASHTO Density" test	No	10	
<u>SOIL POISONING AND PROTECTION AGAINST TERMITES</u>				
<u>Soil insecticide under a 10 year guarantee by a firm of specialist</u>				
14	Under floors, etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m2	146	
15	To bottoms and sides of trenches, etc	m2	63	
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Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

1	Blinding	m3	2
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25 MPa Concrete in:

2	Plinths, etc	m3	2
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3	Aprons	m3	5
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4	Thickening down the edge of apron 150mm deep ,200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling, etc	m	50
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

5	Ramps	m3	2
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6	Footings	m3	11
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7	Holes	m3	1
---	-------	----	---

8	Stub columns	m3	1
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9	Surface beds	m3	22
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Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

TEST BLOCKS

- 10 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 10

MOVEMENT JOINTS, ETC

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

- 11 10mm Joints exceeding 300mm high

m 69

Saw cut joints

- 12 4 x 30mm Saw cuts in top of concrete

m 57

CONCRETE SUNDRIES

Finishing top surfaces of concrete with wooden float finish

- 13 Ramps, etc

m2 6

- 14 Aprons, etc

m2 50

- 15 Slabs, etc

m2 9

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

- 16 Edges, risers, ends and reveals not exceeding 300mm high or wide

m 6

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Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

REINFORCEMENT**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		
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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	146		
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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	63		
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Concrete, Formwork and Reinforcement

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Concrete, Formwork and Reinforcement

REPAIRS & 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	1
2	One brick walls	m2	88

SUPERSTRUCTURE

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

3	Half brick walls	m2	3
4	One brick walls	m2	213

BRICKWORK SUNDRIES

Brickwork reinforcement

5	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	12
6	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,096

Concrete prestressed fabricated lintels

7	115 x 75mm Lintels in lengths not exceeding 3m	m	4
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Turning pieces

8	110mm Wide turning piece to lintels, etc	m	13
---	--	---	----

Joint forming material in movement joints

9	Movement joint formed of 20mm soft board built in vertically between brickwork (Provisional)	m2	18
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Masonry
REPAIRS & RENOVATIONS

	<u>Galvanised hoop iron cramps, ties, etc</u>				
10	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	50		
	<u>FACE BRICKWORK</u>				
	<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>				
11	Extra over brickwork for face brickwork	m2	135		
12	Extra over brickwork for face brickwork in foundation	m2	84		
13	Half brickwall in facing in beamfilling pointed one side	m2	19		
	<u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u>				
14	Brick-on-edge header course lintel pointed on both faces and 230mm wide soffit	m	15		
15	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	13		
16	Coping on top of one brick wall	m	19		
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Bill No. 3

Masonry

REPAIRS & 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	57		
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	69		

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Waterproofing

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Waterproofing

REPAIRS & RENOVATIONS

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	<u>SECTION NO. 8</u>			
	<u>BILL NO. 5</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>ROOF AND WALL INSULATION</u>			
	<u>Aluminium foil based insulation</u>			
1	4mm FR (fire retardant grade) white polyethylene coated single sided aluminium foil insulation (code 2906), laid taut over timber/steel purlins complying with SANS 428, and fixed concurrently with roof covering including white PVC coated straining wires at 383mm centres, all in accordance with the manufacturer's recommendations	m2	175	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>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</u>			
2	Roof covering with pitch not exceeding 25 degrees	m2	175	
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	10	
4	Hip capping 562mm girth 3 times bent and notched to suit roof profile	m	12	
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	Roof Coverings, etc			
	REPAIRS & 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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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 approximately 146m ² measured flat | Item |
|---|--|------|

Sawn softwood

- | | | | |
|---|--|---|----|
| 2 | 50 x 228mm Bearers bolted to steel columns | m | 20 |
|---|--|---|----|

FASCIAS AND BARGE BOARDS

Nutec board or equal approved

- | | | | |
|---|--|---|----|
| 3 | 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 | 60 |
|---|--|---|----|

SKIRTINGS

Wrought meranti

- | | | | |
|---|---|---|----|
| 4 | 19 x 76mm Skirtings with 19mm quarter round nailed to walls | m | 69 |
|---|---|---|----|

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Carpentry and Joinery
REPAIRS & 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	2
<u>Semi-solid flush doors with 3,2mm standard hardboard covering face suitable for paint on both sides, hung to steel frames</u>			
6	40mm Door 813 x 2032mm high	No	2

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

7	300 x 300mm aluminium louvre	m	1
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Carpentry and Joinery

REPAIRS & 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	146
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NAILED UP CEILINGS

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	114
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	32
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Cornices

5	76mm Gypsum coved trim cornice	m	69
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Bill No. 7
Ceilings, Partitions and Access Flooring
REPAIRS & RENOVATIONS

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Section 8: Science Laboratory

Bill No. 7

Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</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	2	
	<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>SUNDRIES</u>			
	<u>Dorma or equal approved</u>			
5	Stainless steel door stop type DDSS-SS-017 plugged	No	4	
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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

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
<u>"Union" or equal approved</u>			
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

MATS

Squeegee or equal approved

11	1 300 x 1 300 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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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.

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<u>"Vitrex" or equal approved</u>					
12	Parrot Bulletin board aluminium frame or similar approved 2400x1200mm fixed to brickwall. 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		
13	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	2		
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Ironmongery

REPAIRS & RENOVATIONS

3	Extra over for flat closed end	No	4
4	80mm Long x 10mm wide rawl bolt fixed	No	32
<u>SUNDRY METALWORK</u>			
<u>Welded steel columns, etc.</u>			
5	101.6 x 4.5mm CHS column size approximately 4000mm high with 200 x 200 x 10mm thick base plate with four holes drilled and U shaped holding bracket size 100 x 60 x 4,5mm thick formed of rectangular hollow section 200mm long twice drilled	No	5
6	100mm Long x 10mm diameter bolt and nut with two (2) washers	No	20
7	85mm Long x 10mm wide rawl bolt fixed	No	10
<u>Welded steel beam, etc</u>			
8	152 x 152 x 4.5 SHS beam welded to column	m	19
9	75 x 50 x 6mm mild steel lipped channel welded to beam	m	19
10	10 mm Diameter x 75 mm long expansion bolt	No	10

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STEEL GATES, SCREENS, ETC

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

11	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	1
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PRESSED STEEL DOOR FRAMES

Double rebated pressed frames suitable for one brick walls with two Union 8432-100SB ball bearing butt hinges with satin brass finish per leaf

12	Frame for door size, 813 x 2 032mm high	No	4
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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

13	Window size 1000 x 900mm high	No	13
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ALUMINIUM WINDOWS

Standard natural anodised window frame, complete with and including ironmongery and 5mm clear safety glazing as per the specifications and window schedules at the back of the bills of quantities

14	Window size 1000 x 900mm high	No	13
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Approved fixed louvre door units screwed into timber frames

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Section 8: Science Laboratory

Bill No. 10

Metalwork

REPAIRS & RENOVATIONS

INTERNAL PLASTER

Cement plaster on brickwork

4	On walls	m2	207		
5	On narrow widths	m2	2		

Cement plaster on concrete

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

6	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	2		
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Section 8: Science Laboratory

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Plastering

REPAIRS & 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 & 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	74
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 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	36		
5	Extra over 75mm dia. rainwater pipe for bend	No	8		
6	Extra over 75mm rainwater pipe for shoe	No	8		
<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	45		
9	Backfilling to drain trenches compacted to 93% Mod AASHTO density	m3	55		
10	Selected sand filling from the excavations in bedding under and filling around pipes	m3	35		
<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 laid in trenches (trenches elsewhere)	m	70		
<u>Extra over HDPE pipes for fittings</u>					
14	110mm Bend	No	4		
15	110mm Junction	No	4		
16	110mm Access bend	No	4		
17	110mm Access junction	No	4		
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	<u>HDPE gulleys</u>				
18	110mm Gulley not exceeding 750mm deep	No	8		
	<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	8		
	<u>WASTE UNIONS, ETC</u>				
21	32mm Basin waste union	No	8		
	<u>TAPS, VALVES, ETC</u>				
	<u>Cobra Watertech or equal 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	8		
23	20mm Full way stop cock	No	8		
	<u>SANITARY PLUMBING</u>				
	<u>HDPE pipes</u>				
24	50mm Pipes	m	48		
25	50mm Pipes chased into brick walls	m	40		
26	110mm Pipes	m	40		
	<u>Extra over HDPE pipes for fittings</u>				
27	50mm Bend	No	16		
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28	50mm Access bend	No	16
29	50mm Junction	No	16
30	50mm Access junction	No	16
31	110mm Bend	No	8
32	110mm Access bend	No	8
33	110mm Socket	No	8
34	110mm Junction	No	8
35	110mm Reducing junction	No	8
36	110mm Access junction	No	8
37	110mm Two-way vent valve	No	8

Sundries

38	Testing water pipe system		Item
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WATER SUPPLIES

Class "O" copper pipes:

39	15mm Pipes chased in brickwork	m	60
40	22mm Pipes chased in brickwork	m	40
41	28mm Pipes	m	30

Extra over class "O" copper pipes for capillary fittings

42	15mm Fittings	No	30
43	22mm Fittings	No	24
44	28mm Fittings	No	16

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REPAIRS & RENOVATIONS

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	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
4	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	28		
	<u>ON METAL</u>				
	<u>Prepare and apply two coats bitumen paint</u>				
5	On inside of 100 x 100mm galvanised sheet iron eaves gutter before fixing	m2	26		
	<u>Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint</u>				
6	On pressed steel door frames	m2	4		
	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	3		
8	On steel members	m2	17		
9	On steel columns	m	57		
	<u>ON WOOD</u>				
	<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>				
10	On doors	m2	7		
	<u>Prepare and apply three coats varnish</u>				
11	On laminated beam	m2	11		
12	On doors	m2	3		
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	<u>One coat pink wood primer and two coats clear polyurethane varnish</u>			
13	On skirtings, rails, etc. not exceeding 300mm girth	m	69	
	<p>Section No. 8</p> <p>Section 8: Science Laboratory</p> <p>Bill No. 14</p> <p>Paintwork</p> <p>REPAIRS & RENOVATIONS</p>	<p>Carried to Collection</p>	<p>R</p>	

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Section 8: Science Laboratory

Bill No. 14

Paintwork

REPAIRS & 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
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3	Hard rock	m3	2
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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	42
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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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Section 9: Refuse Yard & Pump House

Bill No. 1

Earthworks (Provisional)

REPAIRS & 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
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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	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
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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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Section 9: Refuse Yard & Pump House

Bill No. 1

Earthworks (Provisional)

REPAIRS & RENOVATIONS

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Earthworks (Provisional)

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Earthworks (Provisional)

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	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</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>			
	<u>Cost of tests</u>			
	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)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. 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.			
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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

15 MPa Concrete in:

1	Blinding	m3	2
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25 MPa Concrete in:

2	Aprons	m3	4
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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	33
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

4	Ramps	m3	4
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5	Footings	m3	8
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6	Surface beds	m3	12
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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	15
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Section 9: Refuse Yard & Pump House

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

MOVEMENT JOINTS, ETC

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

8	10mm Joints exceeding 300mm high	m2	43
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Saw cut joints

9	4 x 30mm Saw cuts in top of concrete	m	15
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a power float

10	Ramps, etc	m2	6
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11	Aprons, etc	m2	32
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ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	9
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REINFORCEMENT

Mild tensile steel reinforcement to structural concrete work

13	10mm Diameter bars	t	1.00
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High tensile steel reinforcement to structural concrete work

14	12mm Diameter bars	t	1.00
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Section 9: Refuse Yard & Pump House

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

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	83
16	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

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Section 9: Refuse Yard & Pump House

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & 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 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
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3	One brick walls	m2	146
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BRICKWORK SUNDRIES**Brickwork reinforcement**

4	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	595
---	---	---	-----

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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Section No. 9

Section 9: Refuse Yard & Pump House

Bill No. 3

Masonry

REPAIRS & RENOVATIONS

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	85
8	Extra over brickwork for face brickwork in foundations	m2	18
9	Extra over brickwork for face brickwork in beamfilling	m2	5
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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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 & RENOVATIONS

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Section 9: Refuse Yard & Pump House

Bill No. 4

Waterproofing

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Bill No. 4

Waterproofing

REPAIRS & RENOVATIONS

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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Section 9: Refuse Yard & Pump House
Bill No. 5
Roof Coverings, etc
REPAIRS & 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 & 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 Pump rooms approximately 15m² each measured flat

Item

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Carpentry and Joinery

REPAIRS & 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

2

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Carpentry and Joinery

REPAIRS & 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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Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS & 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

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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Ironmongery

REPAIRS & RENOVATIONS

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Ironmongery

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Ironmongery

REPAIRS & RENOVATIONS

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STEEL PURLINS, GIRTS, BRACING, ETC

Purlins and girts bolted to steel

3	150 x 75 x 20 x 2.5mm lipped channel purlins	t	1.00
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Bolts, etc

4	M16 x 80mm grade 8.8	No	20
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5	M25 x 700mm ragbolt including nut and washer cast in exact position in top of concrete	No	32
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 Structural Steelwork
REPAIRS & 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 | 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

REPAIRS & RENOVATIONS

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Metalwork

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Metalwork

REPAIRS & RENOVATIONS

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

4	40mm High brass or aluminium transition strip built into screed between different floor finishes	m	4
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Bill No. 11

Plastering

REPAIRS & RENOVATIONS

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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Bill No. 12

Plumbing and Drainage (Provisional)

REPAIRS & 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 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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Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

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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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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SLEEVES**HDPE sleeves for pipes not exceeding 100mm diameter**

32	Sleeve not exceeding 250mm long	No	1
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Plumbing and Drainage (Provisional)

REPAIRS & RENOVATIONS

	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
3	On external fibre-cement ceilings including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	15		
	<u>ON METAL</u>				
	<u>Prepare and apply two coats bitumen paint</u>				
4	On inside of 150 x 150mm galvanised sheet iron eaves gutter before fixing	m2	6		
	<u>Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint</u>				
5	On pressed steel door and frames	m2	10		
	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	16		
7	On structural steel	m2	88		
	<u>ON WOOD</u>				
	<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>				
8	On doors	m2	7		
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Paintwork

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Bill No. 13

Paintwork

REPAIRS & 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	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
---	--	----	----

Keeping excavations free of water

6	Keeping excavations free of water		Item
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 Bill No. 1
 Earthworks (Provisional)
REPAIRS & 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
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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	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
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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	8
----	---	----	---

Prescribed density tests on filling

12	"Modified AASHTO Density" test	No	5
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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	8
----	--	----	---

14	To bottoms and sides of trenches, etc	m2	85
----	---------------------------------------	----	----

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Bill No. 1

Earthworks (Provisional)

REPAIRS & 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

15 MPa Concrete in:

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

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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Section 10: Guard House
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Concrete, Formwork and Reinforcement
REPAIRS & 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

Carried to Collection

R

Section No. 10

Section 10: Guard House

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

REINFORCEMENT

Mild steel reinforcement to structural concrete work

16	10mm Diameter bars	t	1.00
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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
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19	Mesh reinforcement with mesh reference number 395 laid in concrete footings, etc with 300mm wide side and end laps (measured net)	m2	16
----	---	----	----

Carried to Collection

R

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Concrete, Formwork and Reinforcement
REPAIRS & RENOVATIONS

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Section 10: Guard House

Bill No. 2

Concrete, Formwork and Reinforcement

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Section 10: Guard House

Bill No. 2

Concrete, Formwork and Reinforcement

REPAIRS & RENOVATIONS

R

FACE BRICKWORK

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

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

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

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

Carried to Collection

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Section No. 10
Section 10: Guard House
Bill No. 3
Masonry
REPAIRS & RENOVATIONS

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Section 10: Guard House

Bill No. 3

Masonry

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Section 10: Guard House

Bill No. 3

Masonry

REPAIRS & 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	5
4	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	17

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R

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Section 10: Guard House
Bill No. 4
Waterproofing
REPAIRS & RENOVATIONS

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PROFIED 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	10
3	Ridge capping 562mm girth 3 times bent and notched to suit roof profile	m	4

Carried to Collection

R

Section No. 10
 Section 10: Guard House
 Bill No. 5
 Roof Coverings, etc
REPAIRS & RENOVATIONS

Section No. 10

Section 10: Guard House

Bill No. 5

Roof Coverings, etc

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Section No. 10

Section 10: Guard House

Bill No. 5

Roof Coverings, etc

REPAIRS & 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

Carried to Collection

Section No. 10
Section 10: Guard House
Bill No. 6
Carpentry and Joinery
REPAIRS & RENOVATIONS

R

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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Section No. 10
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Carpentry and Joinery
REPAIRS & 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

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

Item

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Section No. 10
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Carpentry and Joinery
REPAIRS & RENOVATIONS

FASCIAS AND BARGE BOARDS**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 |
|---|---|---|----|

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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Section No. 10
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REPAIRS & RENOVATIONS

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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Carpentry and Joinery

REPAIRS & 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 | 8 |
|---|---|----|---|

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 | 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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Section No. 10

Section 10: Guard House

Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS & RENOVATIONS

Section No. 10

Section 10: Guard House

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Ceilings, Partitions and Access Flooring

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Section No. 10

Section 10: Guard House

Bill No. 7

Ceilings, Partitions and Access Flooring

REPAIRS & RENOVATIONS

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 8</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>LOCKS</u>			
	<u>"Solid" or equal approved</u>			
1	Code 2252-75 two lever upright mortice lock complete with pair of satin-chrome handles plugged.	No	1	
2	Code 2252-76 three lever upright mortice lock complete with pair of satin-chrome handles plugged	No	1	
	<u>SUNDRIES</u>			
	<u>Dorma or equal approved</u>			
3	Stainless steel door stop type DDSS-SS-017 plugged	No	2	
	<u>BATHROOM FITTINGS</u>			
	<u>Vandal proof</u>			
4	145 x 75mm Surface mounted polished stainless steel toilet roll holder plugged	No	1	
5	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft free waste disposal bin plugged.	No	1	
6	900 x 125mm Polished double towel rail fitted as per manufacturer's instructions	No	1	
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	Ironmongery			
	REPAIRS & 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

Carried to Collection

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Section No. 10
Section 10: Guard House
Bill No. 9
Metalwork
REPAIRS & RENOVATIONS

Section No. 10

Section 10: Guard House

Bill No. 9

Metalwork

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Section 10: Guard House

Bill No. 9

Metalwork

REPAIRS & 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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Section No. 10
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Bill No. 12
Plumbing and Drainage (Provisional)

REPAIRS & RENOVATIONS

R

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.**

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 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 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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Section No. 10
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Bill No. 12
Plumbing and Drainage (Provisional)
REPAIRS & 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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REPAIRS & 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>"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>Cobra Watertech or equal approved</u>				
24	40mm Deep seal "P" or "S" trap	No	1		
25	15mm CP angle regulating valve	No	2		
26	15 x 350mm CP flexible connector	No	1		
27	15mm Cobra or equal approved star basin tap	No	1		
28	20mm Full way stop cock	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>HDPE pipes</u>				
29	50mm Pipes	m	2		
30	50mm Pipes chased into brick walls	m	3		
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Plumbing and Drainage (Provisional)
REPAIRS & RENOVATIONS

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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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Section No. 10
Section 10: Guard House
Bill No. 14
Paintwork
REPAIRS & RENOVATIONS

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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

Carried to Collection

R

Section No. 11

Section 11: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS & RENOVATIONS

**THE FOLLOWING IN 1 X 2 CLASSROOM BLOCK
AND 2 X 3 CLASSROOM BLOCK****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 | 8 |
|---|---|----|---|

Upholstered chair without arms

- | | | | |
|---|---|----|---|
| 2 | Approved seat and back foam (seat foam minimum 23kg/m ³), (back foam minimum 16kg/m 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 |
|---|---|----|---|

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 | 160 |
|---|--|----|-----|

**THE FOLLOWING IN GRADE R CLASSROOM
BLOCK****Purpose made**

- | | | | |
|---|--|----|---|
| 4 | Sink cupboard size 1200 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 |
|---|--|----|---|

Carried to Collection**R**

Section No. 11

Section 11: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS & RENOVATIONS

5	Sink cupboard size 1500 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		
6	Built in Cupboard (free standing) size 3 650 x 500 x 2200mm high with top, sides, bottom, division, shelves, doors, etc	No	1		
7	Grade R - 7 000 x 500 x 900mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish, etc as per Architect	No	1		
8	1700 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		
	<u>Wrought laminated saligna and finished as follows:</u> <u>One coat 10% diluted and 2 coats undiluted polyurethane acid resistant varnish</u>				
9	32mm thick top	m2	2		
10	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>				
11	100mm natural anodised aluminium skirting plugged	m	8		
	<u>Furniture</u>				
	<u>Teacher's classroom desk with one drawer both sides</u>				
12	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	1		
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Joinery Fittings					
REPAIRS & RENOVATIONS					

<u>Upholstered chair without arms</u>				
13	Approved seat and back foam (seat foam minimum 23kg/m³), (back foam minimum 16kg/m³) 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	1	
<u>Grade R Polypropylene Chair</u>				
14	Grade R Polypropylene Chair with metals legs, Blue, 325mm H	No	8	
15	Grade R Polypropylene Chair with metals legs, Orange, 325mm H	No	8	
16	Grade R Polypropylene Chair with metals legs, Red 325mm H	No	39	
<u>Grade R 8 Seater white coating Supawood Table</u>				
17	Grade R 8 Seater white coating Supawood Table. Table height to be 500mm.	No	4	
<u>External Furniture</u>				
18	Playground climbing stairs with wings	No	2	
19	Slides	No	4	
20	Playground system	No	2	
<u>THE FOLLOWING IN MEDIA CENTRE BLOCK</u>				
<u>Purpose made</u>				
21	2700 x 750 x 850mm high worktop complete and including 32mm formica worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish, etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1	
Carried to Collection				
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22	3 300 x 750 x 850mm high worktop complete and including 132mm formica worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish, etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
23	4 300 x 750 x 850mm high worktop complete and including 32mm formica worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish, etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
24	13 000 x 750 x 850mm high worktop complete and including 32mm formica worktop, divisions, sides, brackets, fixings, rail, back uprights, filler piece, steel frame, dividers, brackets, doors, ironmongery, varnish etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
25	7 500mm long x 500mm wide x 1 545mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, steel frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
26	Store shelving - 2 000mm long x 500mm wide x 1 685mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
27	Store shelving - 3 000mm long x 500mm wide x 1 685mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
28	Island shelving (free standing) 2 500mm long x 660mm wide x 2 200mm High free standing shelves complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1		
Carried to Collection					R
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29	Island shelving (free standing) 5 000mm long x 660mm wide x 2 200mm High free standing shelves complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	2		
30	Bag rack 2 000mm long x 500mm wide x 1 000mm High shelving along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	1		
31	Newspaper magazine 6 000mm long x 500mm wide x 1 000mm High along perimeter of wall complete with and including rail, back uprights, filler piece, frame, dividers, brackets, varnish etc as per Architect drawing PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	1		
32	L-shaped service counter size 2 500 x 750 x 1200mm high and 1500 x 750 x 1200mm high complete with and including 32mm melamine worktop, drawers, shelves, divisions, sides, brackets, fixings, etc as per Architect drawing PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	1		
	<u>PG Bison 32mm thick Formica Lifeseal Worktop in Bodensee Cherry Loglare or equal approved with Squareline profile on 1 long edge, consisting of a formica high pressure laminate bonded to a moisture resistant Bisonboard Particleboard substrate with laminated on one side backer, manufactured in accordance with SANS ISO 4586:1995 constructed with the architectural drawings attached to these bills of quantities</u>				
33	32mm thick top	m2	22		
	<u>Aluminium skirting</u>				
34	100mm natural anodised aluminium skirting plugged	m	52		
Carried to Collection					R
Section No. 11 Section 11: Joinery Fittings Bill No. 1 Joinery Fittings REPAIRS & RENOVATIONS					

Furniture

Lower Back Typist Chair with 5 Star Base

35	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	13
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Stackable Student Chair (Grade 7-12)

36	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	24
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8 Seater Supawood Cradle Stand Table

37	Alpine or similar approved S8CR (750 x750mm), 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	6
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THE FOLLOWING IN NUTRITIONAL CENTRE BLOCK

Purpose made

38	Vanity cupboard size 1 000 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	2
39	Wall cupboard size 1 500 x 400 x 600mm high with top, sides, bottom, divisions, shelf, back and single hinged door plugged etc as per Architect drawing PJN_ZA_2020_2003 _DBSA_GPS_ARC M2004_R00	No	1
40	Floor 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
41	Sink cupboard unit size 1 800 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	3

Carried to Collection

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7 Seater Supawood Cradle Stand Table

51	Alpine or similar approved S8CR (3 460 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	1
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14 Seater Supawood Cradle Stand Table

52	Alpine or similar approved S8CR (4 020 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	7
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Stackable Student Chair (Grade 7-12)

53	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

54	3 000 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, drawers, doors, ironmongery, varnish, etc as per Architect drawing PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	9
55	5 000 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 PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	1
56	Store shelving - 10 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 PJN_ZA_2020_2003_DBSA_GPS_ARC M2004_R00	No	1

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REPAIRS & RENOVATIONS

Wrought laminated saligna and finished as follows:
One coat 10% diluted and 2 coats undiluted
polyurethane acid resistant varnish

57	32mm thick top	m2	28
58	Extra over for cutting an opening in 32mm worktop to suit 480 x 345mm drop in basin (elsewhere)	No	9

Aluminium skirting

59	100mm natural anodised aluminium skirting plugged	m	48
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Furniture

Lab Chair

60	380 x 690mm high chair lab grade with Ø300mm polypropylene copolymer injection moulded seat to be fitted by means of pop rivets (Ref. 2.1.8). Steel frame to be Ø25.05x1.6mm thick steel tubing with baked polyester/epoxy light grey powder coating finish (Ref. 2.1.18/19) fixed with Ø10mm steel rods. All legs ends to have nylon plugs (Ref.2.1.20).	No	25
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Wheel chair

61	Folded wheelchair size 107mm long x 91mm high with seat size 64mm width and 50mm high including wheels and foot rest as per manufacturer's specifications.	No	1
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Two door steel stationery cupboard with four adjustable shelves.

62	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 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
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THE FOLLOWING IN ADMINISTRATION BLOCK

Purpose made

63	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
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Carried to Collection

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REPAIRS & RENOVATIONS

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Desk with 2 drawers

71	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
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Upholstered Side Chair With Arms

72	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	24
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Lower Back Typist Chair with 5 Star Base

73	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	3
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Upholstered chair without arms

74	Approved seat and back foam (seat foam minimum 23kg/m³), (back foam minimum 16kg/m³) 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	9
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Carried to Collection

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Joinery Fittings

REPAIRS & RENOVATIONS

Desk with 2 drawers

- 75 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

22

Filling rack pigeon hole 30 rack.

- 76 890 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 to be edged with matching laminate.

No

3

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Section 11: Joinery Fittings

Bill No. 1

Joinery Fittings

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Section 11: Joinery Fittings

Bill No. 1

Joinery Fittings

REPAIRS & RENOVATIONS

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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 12</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 cut to depths between 100mm and 150mm to spoil (rate to include overhaul)	m3	450		
2	8.3.2a	Excavate in soft material and place directly to fill	m3	450		
3	8.3.2a	Excavate in soft material cut to spoil (rate to include overhaul)	m3	450		
4		Import G5 quality material and compacted to 98% Mod AASHTO in 150mm layers	m3	900		
5	8.3.2b	Extra Over for items 8.3.2a for excavation in hard material	m3	60		
6	8.3.2a	Compact fill material to 93% Mod. AASHTO	m3	900		
7		Trimming of Embankments	m2	70		
8	8.3.2a	Formation (fill)	m2	50		
		Carried to Collection			R	
		Section No. 12 Section 12: External Works Bill No. 2 Bulk Earthworks REPAIRS & RENOVATIONS				

		<u>PARKINGS</u>				
9	8.3.1.2	Remove topsoil to depths between 100mm and 150mm to spoil (rate to include overhaul)	m3	872		
10	8.3.2a	Excavate in soft material and place directly to fill	m3	872		
11	8.3.2a	Excavate in soft material to spoil (rate to include overhaul)	m3	872		
12	8.3.2b	Extra Over for items 8.3.2a excavation in hard material	m3	90		
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	1,744		
17		G6 layer - compacted to 98% of modified AASHTO density of 100mm thick	m3	872		
18		G7 layer - compacted to 95% of modified AASHTO density of 100mm thick	m3	872		
19		Finishing the site (Rate to include backfilling behind the kerbs, topsoiling and grass planting)	m2	800		
		Carried to Collection			R	
		Section No. 12				
		Section 12: External Works				
		Bill No. 2				
		Bulk Earthworks				
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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 12</u>				
		<u>BILL NO. 3</u>				
		<u>STORMWATER 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	<u>STORMWATER</u>				
		<u>Excavate for 375mm diameter pipes in all materials where depth is:</u>				
1	8.3.2a	0 m up to 1,5 m	m	20		
2	8.3.2b	Extra over sub item 8.3.2.a for excavation in hard material irrespective of depth.	m	5		
3	8.2.1	Impermeable backfilling to storm water drainage systems	m	10		
4	8.2.2.1	Provision of granular sand bedding (Class C) from commercial or off-site source	m	8		
5		Encasing of pipes in concrete (Provisional)	m	20		
		<u>20MPa/19mm Reinforced concrete in open stormwater v-drain channel including excavations, formwork, finishes etc.</u>				
6		1000mm Wide Channel	m	587		
		Carried to Collection			R	
		Section No. 12				
		Section 12: External Works				
		Bill No. 3				
		Stormwater Reticulation				
		REPAIRS & RENOVATIONS				

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Item No	SANS Pay Ref	Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 12</u></p> <p><u>BILL NO. 4</u></p> <p><u>SEWER RETICULATION</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to Model Preambles for trades 2008 edition and specification of materials and methods to be used PW 371a and PW 371b</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 12 Section 12: External Works Bill No. 4 Sewer Reticulation REPAIRS & RENOVATIONS</p>			R	

		<p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p><u>Excavations in conditions other than earth</u></p> <p>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</p> <p><u>Subterranean water</u></p> <p>The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.</p>				
	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	230		
3	8.3.2b	Extra over sub item 8.3.2a for excavation in hard material irrespective of depth.	m3	55		
		Carried to Collection				
		Section No. 12 Section 12: External Works Bill No. 4 Sewer Reticulation REPAIRS & RENOVATIONS				

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4	8.2.2.3	Provision of granular sand bedding (Class C) from commercial or off-site source	m3	140		
5	8.2.1	Impermeable backfilling to sewer	m3	530		
6	8.2.1	Encasing of pipes in concrete (Provisional)	m3	12		
7		Disposal of surplus material caused by importation of bedding and removal of hard or rock material to spoil	m2	195		
	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	830		
	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 750m deep invert	No	3		
10		750 mm up to 1m deep invert	No	3		
11		1.0m up to 1.25m ditto	No	3		
12		1.25m up to 1.50m ditto	No	14		
		Carried to Collection			R	
		Section No. 12 Section 12: External Works Bill No. 4 Sewer Reticulation REPAIRS & RENOVATIONS				

13	1.50m up to 1.75m ditto	No	2		
14	1.75m up to 2.0m ditto	No	2		
	<u>TESTING AND COMMISSIONING</u>				
15	Allow for testing and commissioning of new sewer system		Item		
	<u>THE FOLLOWING IN SEPTIC TANK AND FRENCH DRAIN</u>				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
16	Septic tank	m3	60		
	<u>Extra over excavations in earth for excavation in:</u>				
17	Soft rock	m3	6		
18	Hard rock	m3	3		
	<u>Extra over all excavations for carting away</u>				
19	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	51		
	<u>Risk of collapse of excavations</u>				
20	Sides of trench and hole excavations not exceeding 1,5m deep	m2	102		
	<u>Keeping excavations free of water</u>				
21	Keeping excavations free of water		Item		
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	<u>FILLING, ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u>				
22	Backfilling to trenches, holes, etc	m3	9		
	<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		
	Carried to Collection			R	
	Section No. 12				
	Section 12: External Works				
	Bill No. 4				
	Sewer Reticulation				
	REPAIRS & RENOVATIONS				

	<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		
	<u>FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
29	One brickwalls	m2	60		
	<u>Brickwork reinforcement</u>				
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
30	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	240		
	<u>Forming holes etc</u>				
31	Form hole for 110mm diameter pipes	No	2		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
32	Surface beds, slabs, etc	m2	20		
	<u>Covers etc</u>				
33	Heavy duty cast iron manhole cover and frame size 450 x 500mm	No	2		
	Carried to Collection			R	
	Section No. 12				
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	REPAIRS & RENOVATIONS				

	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to soffits</u>				
34	Slabs with sloping soffits propped up exceeding 1.5m high and not exceeding 3m high	m2	20		
	<u>Rough formwork to sides</u>				
35	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	16		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
36	8mm Diameter bars	kg	50		
	<u>High tensile steel reinforcement to structural concrete work</u>				
37	16mm Diameter bars	kg	350		
	<u>FRENCH DRAIN</u>				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
38	French drain	m3	30		
	<u>Extra over excavations in earth for excavation in:</u>				
39	Soft rock	m3	3		
40	Hard rock	m3	2		
	Carried to Collection			R	
	Section No. 12				
	Section 12: External Works				
	Bill No. 4				
	Sewer Reticulation				
	REPAIRS & RENOVATIONS				

41	<u>Extra over all excavations for carting away</u>				
	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	20		
42	<u>FILLING, ETC</u>				
	<u>15mm to 75mm Stone filling supplied by the contractor compacted in 150mm layers compacted to 91% Mod AASHTO to density</u>				
42	Backfilling to trenches, holes, etc	m3	25		
	<u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 90% Mod AASHTO to density</u>				
43	Backfilling to trenches, holes, etc	m3	5		
	<u>Sundries</u>				
44	Geo-fabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching	m2	8		
	110mm Upvc perforated pipes laid in stone	m	4		
46	Extra over pipe for 110mm diameter capped end	No	4		
47	Extra over pipe for 110mm dia junction	No	2		
48	Extra over pipe for 110mm dia bend	No	2		
Carried to Collection					R
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Sewer Reticulation					
REPAIRS & RENOVATIONS					

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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 12</u>				
		<u>BILL NO. 5</u>				
		<u>WATER 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	<u>EARTHWORKS FOR PIPE TRENCHES</u>				
	8.3.2a	<u>Excavate for 63mm diameter pipes in all materials where depth is:</u>				
	8.3.2a	<u>0 m up to 1,5 m</u>				
1		20mm dia. connections	m	44		
2		32mm dia. connections	m	120		
3		40mm dia. connections	m	54		
4		63mm dia. connections	m	312		
5	8.3.2b	Extra over sub item 8.3.2a for excavation in hard material irrespective of depth.	m3	20		
6	8.2.2.3	Provision of granular sand bedding (Class C) from commercial or off-site source	m3	96		
7	8.2.1	Impermeable backfilling to water	m3	252		
8		Encasing of pipes in concrete (Provisional)	m3	5		
		Carried to Collection			R	
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9	8.2.1	Disposal of surplus material caused by importation of bedding and removal of hard or rock material to spoil	m3	96		
	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>				
10	8.2.1	50mm	m	512		
11	8.2.1	40mm	m	54		
12	8.2.1	32mm	m	120		
13	8.2.1	20mm	m	44		
		<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>				
14	8.2.5	Supply and install 50mm diameter water valves	No	8		
15	8.2.5	Supply and install 32mm diameter water valves	No	12		
		<u>uPVC Long radius 90 degrees bends</u>				
16		100mm	No	1		
17		50mm	No	6		
18		40mm	No	10		
19		32mm	No	3		
20		20mm	No	14		
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		<u>uPVC Equal T-piece</u>				
21	8.2.2	50mm	m	4		
22	8.2.2	40mm	m	9		
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	7		
26	8.2.2	50mm x32mm	m	8		
27	8.2.2	40mm x 32mm	m	4		
28	8.2.2	32mm x 20mm	m	6		
		<u>uPVC Straight Reducers</u>				
29	8.2.2	75mm x 63mm	m	1		
30	8.2.2	50mm x 40mm	m	3		
31	8.2.2	50mm x32mm	m	4		
32	8.2.2	40mm x 32mm	m	4		
33	8.2.2	32mm x 20mm	m	7		
	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. 12 Section 12: External Works Bill No. 5 Water Reticulation REPAIRS & RENOVATIONS				

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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 12</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	1,600		
2	8.2.2	60mm Grey Permeable Paving Blocks	m2	900		
3	8.2.2	Cobble stone	m2	400		
	SANS 1200 MK	<u>ROADWORKS AND PARKINGS</u>				
4	8.2.1	Prefabricated mountable kerb, SABS 927 fig 8c, as shown on the detailed drawings	m	160		
5	8.2.1	Prefabricated mountable kerb, SABS 927 fig 8c circular on plan, as shown on the detailed drawings	m	10		
6	8.2.1	Prefabricated Vertical kerb, fig 3m, as shown on the detailed drawings	m	257		
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7	8.2.1	Prefabricated Vertical kerb, fig 3m circular on plan, as shown on the detailed drawings	m	10		
8	8.2.1	Prefabricated edging kerb, SABS 927 fig 12, as shown on the detailed drawings	m	145		
9	8.2.1	Prefabricated edging kerb, SABS 927 fig 12 circular on plan, as shown on the detailed drawings	m	10		
10		Circular cutting	m	30		
		<u>CONCRETE GROUND SLABS, PAVINGS, JOINTS, ETC</u>				
11		25Mpa Reinforced concrete in ground slabs, pavings, etc.	m3	111		
12		25Mpa Reinforced concrete in ramps, etc.	m3	6		
13		Type 193 mesh reinforcement to concrete slabs	m2	740		
14		Finishing top surfaces of concrete surfaces with a wood float	m2	771		
		<u>JOINTS, ETC.</u>				
15	SANS 1200	6mm x 15mm Saw cut joint in concrete slab	m	310		
16		15mm Expansion joint with joint former and polysulphide sealant	m	310		
		<u>ROADWORKS REMAINDER</u>				
17		Extra over items 6.1.3 for curves with radius less than 25mm but greater or equal to 2.0m	m	60		
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FILLING, ETC

Earth filling (G7 material in accordance with SABS 1200 DM) supplied by the contractor in filling up levels to form building platforms, compacted to 95% Mod AASHTO density

7	Filling to form level platforms, etc	m3	250
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Earth filling material supplied by the contractor compacted in 150mm layers compacted to 93% Mod AASHTO to density

8	Sub-base C4 cemented course under parking areas etc with crushed stone material from commercial sources compacted to 95% Mod AASHTO density.	m3	151
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9	Base C3 cemented course under parking areas etc crushed stone material from commercial sources compacted to 95% Mod AASHTO density.	m3	151
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Compaction of surfaces

10	Compaction of ground surface under parking or paving areas etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 97% Mod AASHTO density	m2	1,228
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SOIL POISONING AND PROTECTION AGAINST TERMITES

Soil insecticide under a 10 year guarantee by firm of specialist

11	Under pavings	m2	673
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PAVINGS

Paving of 80mm 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

12	Paving in herringbone pattern	m2	673
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Decanting

REPAIRS & RENOVATIONS

13	220mm Wide brick-on-flat header course edging on 20mm thick mortar bed	m	420
14	Fair circular cutting	m	40
	<u>Saw cut joints</u>		
15	10 x 10mm Saw cut joints in top of pavings	m	30
	<u>Prescribed density tests on filling</u>		
16	"Natural California Bearing Ratio" test	No	25
	<u>CARPORTS</u>		
	<u>Prefabricated shadeport treble unit constructed of tubular mild steel welded and bolted frame included knitted polyethelene net with 88% shade factor fixed to frame with galvanised cable or pipe surround complete with excavations, backfilling, cartway, risk of colapse, concrete in bases etc.</u>		
17	5000 x 2500mm Carports	No	3
	<u>ROAD MARKINGS</u>		
	<u>White lines (broken or unbroken)</u>		
18	b) 100mm wide	m	50
19	b) 150mm wide	m	10
20	c) Disabled parking sign	No	1
21	d) Standard "STOP" sign	No	1
22	e) Direction arrow 5000mm long	No	2

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ROAD SIGNS

Standard road sign with standard 50mm diameter galvanized mild steel fixing post bedded into and including bases, including any necessary excavation, mass concrete, etc.

23	610mm "STOP" sign	No	1
24	610mm "DISABLED" sign	No	1

KERBING

Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing

25	Kerb (SABS 927 fig 8) 150 x 300mm high with 500 x 150mm reinforced concrete base and 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc "LI"	m	380
26	Kerb (SABS 927 fig 8) 150 x 300mm high with 300 x 250mm reinforced concrete haunching at back of each joint circular on plan exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc "LI"	m	40

TEMPORARY MOBILE CLASSROOM

Temporary Mobile Classrooms Structures for 12 Months Rental including delivery, joining and installation on site location identified by Contractor, Project Manager and School

27	Five (5) No. Classroom mobile units size 8.0m x 6.0m	Mnt	12
28	Two (2) No. Office cabins mobile units size 8.0m x 6.0m	Mnt	12

Relocation of furniture

29	Relocation of existing furniture to temporary mobile classrooms and offices		SUM
30	Relocation of existing furniture to classrooms from temporary classrooms		SUM

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Decanting

REPAIRS & 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.

EARTHWORKS (PROVISIONAL)**BULK EXCAVATION, FILLING TO FORM PLATFORMS, ETC****Excavation not exceeding 2m deep**

1	Over site to reduce levels and depositing excavated material in prescribed stock piles on site	m3	446
---	--	----	-----

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

2	Holes	m3	46
3	Edge beam	m3	9

Extra over excavations in earth for excavation in:

4	Soft rock	m3	50
5	Hard rock	m3	100

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Extra over all excavations for carting away

- | | | | |
|---|--|----|-----|
| 6 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 500 |
|---|--|----|-----|

Risk of collapse of excavations

- | | | | |
|---|--|----|-----|
| 7 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 725 |
|---|--|----|-----|

Keeping excavations free of water

- | | | | |
|---|-----------------------------------|------|--|
| 8 | Keeping excavations free of water | Item | |
|---|-----------------------------------|------|--|

FILLING, ETC
Earth filling of G7 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density

- | | | | |
|---|-----------------------------------|----|----|
| 9 | Under floors, steps, pavings, etc | m3 | 50 |
|---|-----------------------------------|----|----|

Earth filling material supplied by the contractor compacted in 150mm layers compacted to 93% Mod AASHTO to density

- | | | | |
|----|--|----|-----|
| 10 | Sub-base C4 cemented course under parking areas etc with crushed stone material from commercial sources compacted to 95% Mod AASHTO density. | m3 | 223 |
|----|--|----|-----|

- | | | | |
|----|---|----|-----|
| 11 | Base C3 cemented course under parking areas etc crushed stone material from commercial sources compacted to 95% Mod AASHTO density. | m3 | 223 |
|----|---|----|-----|

Compaction of surfaces

- | | | | |
|----|---|----|-----|
| 12 | 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 | 990 |
|----|---|----|-----|

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REPAIRS & RENOVATIONS

SOIL POISONING AND PROTECTION AGAINST TERMITES**Soil insecticide under a 10 year guarantee by firm of specialist**

13	To bottoms and sides of trenches, etc	m2	846
14	Under pavings	m2	990

PAVINGS**Paving of 60mm Grey Permeable Paving Blocks 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**

15	Paving in herringbone pattern	m2	990
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Saw cut joints

16	10 x 10mm Saw cut joints in top of pavings	m	40
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Prescribed density tests on filling

17	"Modified AASHTO Density" test	No	20
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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)

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REPAIRS & RENOVATIONS

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**15MPa/19mm Concrete in:**

18	Blanding under footings and bases	m3	4
----	-----------------------------------	----	---

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**25 MPa Concrete in:**

19	Bases	m3	46
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20	Edge beam	m3	9
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REPAIRS & RENOVATIONS

TEST BLOCKS

- 21 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 8

ROUGH FORMWORK (DEGREE OF ACCURACY II)**Rough formwork to sides**

- 22 Edges, risers, ends and reveals not exceeding 300mm high or wide

m 1,800

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

- 23 Under pavings etc

m2 990

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

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REPAIRS & RENOVATIONS

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

24	Roof covering with pitch not exceeding 25 degrees	m2	1,080
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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

25	100 x 100 x 4mm SHS	t	16.764
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REPAIRS & RENOVATIONS

STEEL TRUSSES ETC**Welded portal frames with flat section bearer,
gusset and connection plates and L-section cleats
bolted to concrete**

26	150 x 100 x 3mm RHS	t	6.195
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PURLINS, GIRTS, BRACING, ETC**Purlins and girts bolted to steel**

27	150 x 75 x 20 x 2.5mm Thick CFLC purlins	t	13.180
----	--	---	--------

28	125 x 75 x 8mm Thick angle cleat	t	0.668
----	----------------------------------	---	-------

29	50 x 6mm Flat bars	t	0.086
----	--------------------	---	-------

**Welded bracing etc with flat section connection
plates bolted to steel**

30	50 x 50 x 5 Angle section bracing	t	1.531
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Base plates

31	300 x 300 x 4mm Base plate	t	0.859
----	----------------------------	---	-------

32	100 x 100 x 8mm Gusset plate	t	0.191
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Bolts and nuts

33	M12 x 50 Bolts and nuts.	No	2,432
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REPAIRS & RENOVATIONS

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 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

34	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	450
35	100 x 75 x 0.6mm Rainwater downpipe with brackets fixed to brick wall or concrete	m	243
36	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	90
37	Extra over 150 x 125 x 0.8mm thick ogee eaves gutter for stopped end	No	20
38	Extra over 150 x 125 x 0.8mm Ogee eaves gutter for angle	No	90
39	Extra over 150 x 125 x 0.8mm ogee eaves gutter for outlet for 75 x 50mm pipe	No	90
40	Extra over 75 x 50 x 0.6mm rainwater pipe for eaves offset	No	90
41	Extra over 75 x 50 x 0.6mm rainwater pipe for shoe	No	90

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REPAIRS & RENOVATIONS

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

42	On structural steel	t	38
43	On eaves gutters	m2	360
44	On down pipes	m2	87

FLAGPOLES AND FLAGS

45	Supply and install 6m high flag pole complete including casting concrete, excavations, cartaway etc	No	2
46	Supply South Africa standard flag 180 x 120mm	No	1
47	Supply GaoKganya Primary school digitally printed flags unto ultrasheen finished with rope and tongle size 180 x 120mm	No	1

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REPAIRS & RENOVATIONS

Refixing of existing palisade fence, etc (removal and setting aside elsewhere)

- | | | | |
|---|---|---|-----|
| 3 | Palisade security fencing 2.4m high made of 50 x 50 x 5mm angle iron top and bottom rails , filled in vertically with 40 x 40 x 3mm angle iron palisades 2400mm long at 150mm centres, panels fixed to 100 x 100 x 3mm posts with top cap cast into concrete bases 300 x 300 x 250mm thick with bottom of base 500mm below natural ground level complete with earth works, etc. | m | 179 |
|---|---|---|-----|

FENCING**"Invisible steel fence"**

- | | | | |
|---|---|---|-----|
| 4 | 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 PJN_ZA_2020_2003_DBSA_GKPS_SE_4004_R00 | m | 489 |
|---|---|---|-----|

Gates finish to match existing invisible steel fence

- | | | | |
|---|--|----|---|
| 5 | Single gate size, 1000 x 3000mm 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 | 2 |
|---|--|----|---|

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Fencing

REPAIRS & RENOVATIONS

6	Sliding gate size, 6000 x 3000mm high of 85mm square galvanized post sealed with uv stabilized polymer cap, 3mm high tensile wires galvanized 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
7	Sliding gate size, 7000 x 3000mm high of 85mm square galvanized post sealed with uv stabilized polymer cap, 3mm high tensile wires galvanized 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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Fencing

REPAIRS & RENOVATIONS

	<u>Trees, plants, etc</u>				
4	Clivia miniata	No	8		
	<u>BENCHES</u>				
	<u>Purpose made steel bench around tree with timber seat</u>				
5	Bench size 9000 x 600 x 600mm high complete and including 50 x 25mm thick meranti timber slats, filler pieces, angle irons, expansion bolts, rawl bolts, sealer, varnish, steel frame, paint etc	No	2		
	<u>Old world concrete or equally approved civic seat free standing benches</u>				
6	Civic benches with three slats size 1800 x 630mm high x 800mm high	No	8		
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Landscapping

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Landscapping

REPAIRS & RENOVATIONS

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EXCAVATION, FILLING, ETC

Excavation in earth or compacted filling not exceeding 2m deep

1	Bases	m3	5
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Extra over excavations in earth for excavation in:

2	Soft rock	m3	0.5
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3	Hard rock	m3	1
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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	5
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Risk of collapse of excavations

5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	38
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Keeping excavations free of water

6	Keeping excavations free of water		Item
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SOIL POISONING AND PROTECTION AGAINST TERMITES

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

7	To bottoms and sides of trenches, etc	m2	46
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UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

10MPa/19mm Concrete in:

8	Blinding under footings and bases	m3	0.4
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Carports

REPAIRS & RENOVATIONS

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

9	Bases	m3	5
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TEST BLOCKS

10	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	1
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REINFORCEMENT

Mild steel reinforcement to structural concrete work

11	10mm Diameter bars	t	0.41
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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

12	Roof covering with pitch not exceeding 25 degrees	m2	411
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STRUCTURAL STEELWORK

Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to rafters

13	100 x 100 x 4mm SHS	t	1.344
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REPAIRS & RENOVATIONS

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	1.024
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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	2.177
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16	125 x 75 x 8mm Thick angle cleat	t	0.117
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17	50 x 6mm Flat bars	t	0.009
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Welded bracing etc with flat section connection plates bolted to steel

18	50 x 50 x 5 Angle section bracing	t	0.524
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Base plates

19	300 x 300 x 4mm Base plate	t	0.090
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20	100 x 100 x 8mm Gusset plate	t	0.020
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Bolts and nuts

21	M12 x 50 Bolts and nuts.	No	384
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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	5
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REPAIRS & RENOVATIONS

<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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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 & 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 (colour by Architect) 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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ON METAL

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

34	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) "LI"	m2	5
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SURFACING OF BITUMINOUS PREMIX CARPET**Bituminous premix combi court surfacing**

35	Prime coat	m2	806
36	25mm Thick continuously graded premixed bituminous surfacing	m2	806
37	Final course bitumal slurry seal	m2	806

FENCING TO COMBI COURTS**IRONMONGERY****Bolts and latches**

38	200mm Galvanised heavy duty barrel bolt welded onto gate style	No	2
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Locks

39	63mm Brass five pin tumbler padlock with two keys	No	2
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FENCING

40	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
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REPAIRS & RENOVATIONS

41	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 bolts 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		
42	38,1mm Diameter x 2mm thick galvanised mild steel top or bottom rails	m	260		
43	Extra for scribed and welded T-intersection with post	No	130		
44	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		
45	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		
46	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		
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47	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		
	<u>Galvanised mild steel gates</u>				
48	Single pedestrian gate size 900 x 3000mm 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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REPAIRS & RENOVATIONS

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	<u>Filling, etc.</u>				
7	Imported top soil filling supplied by the Contractor, brought onto site and spread and levelled over sports field	m3	1,280		
	<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	3,190		
	<u>Tests</u>				
9	Tests to determine the degree of compaction, etc. of ground or filling	No	5		
	<u>Protection against termites</u>				
10	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	3,190		
	<u>CONCRETE</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm Concrete in:</u>				
11	Blinding under footings and bases	m3	1		
	<u>25 MPa concrete</u>				
12	Bases	m3	1		
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SUNDRIES

Standard sports nets including all fixing ropes, pegs, attachments, etc.

13	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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Soccer Field with Athletic Tracks (Provisional)

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Soccer Field with Athletic Tracks (Provisional)

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Soccer Field with Athletic Tracks (Provisional)

REPAIRS & 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	37
2	Holes	m3	3

Extra over excavations in earth for excavation in:

3	Soft rock	m3	4
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	17
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	103
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Keeping excavations free of water

7	Keeping excavations free of water		Item
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Bill No. 14

Boundary Wall

REPAIRS & RENOVATIONS

FILLING, ETC

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

8 Backfilling to trenches, holes, etc m3 22

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 138

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

10MPa/19mm Concrete in:

10 Blinding under footings and bases m3 2

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25 MPa Concrete in:

11 Strip footings m3 9

12 Bases m3 1

TEST BLOCKS

13 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 1

FOUNDATIONS (PROVISIONAL)

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

14 One brickwalls m2 29

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Bill No. 14

Boundary Wall

REPAIRS & RENOVATIONS

15	Two brickwalls	m2	6
16	Piers	m3	1
<u>SUPERSTRUCTURE</u>			
<u>Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar</u>			
17	Piers	m3	3
<u>Brickwork reinforcement</u>			
<u>FACE BRICKWORK</u>			
<u>Firelight Travertine FBX or equal approved pointed with recessed with recessed horizontal and vertical joints.</u>			
18	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	690
19	Extra over brickwork for face brickwork	m2	11
20	One brick walls in stretcher bond pointed on both sides	m2	108
21	Two brick walls faced both sides	m2	32
<u>SIGNAGE</u>			
<u>Name board</u>			
22	Name board size 2500 x 2000mm complete with 75mm diameter steel tubes, 50mm diameter steel tube anchor, excavations, bases, cartaway, etc complete as per the drawing number PJN_ZA_2020_2003_DBSA_GPS_ARCH_Z2001_R00	No	1

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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
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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	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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Bill No. 15

Wash Trough

REPAIRS & 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 12: External Works

Bill No. 15

Wash Trough

REPAIRS & RENOVATIONS

FOUNDATIONS (PROVISIONAL)

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

13 One brickwalls m2 5

SUPERSTRUCTURE

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

14 One brick walls m2 10

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

FACE BRICKWORK

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

16 One brick wall faced both sides m2 10

EXTERNAL PLASTER

Cement plaster on brickwork

17 On walls m2 3

WALL TILING

Ceramic wall tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound

18 On walls m2 3

Carried to Collection

R

Section No. 12

Section 12: External Works

Bill No. 15

Wash Trough

REPAIRS & 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

Carried to Collection

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Section No. 12
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 Wash Trough
REPAIRS & RENOVATIONS

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