

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION 1</u></p> | | | |
| <p><u>BILL NO. 1 PRELIMINARIES</u></p> | | | |
| <p>1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.</p> | | | |
| <p>2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.</p> | | | |
| <p>3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</p> | | | |
| <p>4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.</p> | | | |
| <p>5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.</p> | | | |
| <p>6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.</p> | | | |
| <p>Carried Forward</p> | | R | |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | | |

Brought Forward

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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 by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, 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 proportionate to time.

R

Carried Forward

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

R

Brought Forward

R

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Carried Forward

R

Section No. 1
Preliminaries & Generals
Bill No. 1
Preliminaries

Brought Forward

R

The principal agent shall:-

- monitor and control progress and scheduling
- monitor all contract conditions, and
- coordinate the efforts of the employer's agents,the contractor and subcontractors

The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part

The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

Item

Works risk (Clause 8)

8 F: V: T:

Item

Indemnities (Clause 9).

Clause 9.1.1 is deleted and substituted with:

Carried Forward

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

| Brought Forward | | R |
|--|---|------|
| | Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'. | |
| 9 | F: V: T: Works insurances (Clause 10). | Item |
| 10 | F: V: T: Liability insurances (Clause 11). | Item |
| 11 | F: V: T: Effecting insurances (Clause 12). | Item |
| 12 | F: V: T: State Provisions (Clause 13). | Item |
| 13 | F: V: T: Security (Clause 14). | Item |
| 14 | F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15). | Item |
| 15 | F: V: T: Access to the works (Clause 16). | Item |
| 16 | F: V: T: Contract instructions (Clause 17). | Item |
| 17 | F: V: T: Setting out of the works (Clause 18.3). | Item |
| Carried Forward | | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | | |

| Brought Forward | | R |
|--|---|------|
| | 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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out. | |
| 18 | F: V: T: Assignment (Clause 19). | Item |
| 19 | F: V: T: Nominated subcontractors (Clause 20). | Item |
| 20 | F: V: T: Selected subcontractors (Clause 21). | Item |
| 21 | F: V: T: Employer's Direct contractors (Clause 22). | Item |
| 22 | F: V: T: Contractor's Domestic subcontractors (Clause 23). | Item |
| 23 | F: V: T: <u>COMPLETION</u> Practical completion (Clause 24). | Item |
| 24 | F: V: T: Works completion (Clause 25). | Item |
| 25 | F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: | Item |
| Carried Forward | | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | | |

| Brought Forward | | R |
|--|--|------|
| | <p>"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".</p> <p>"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"</p> | |
| 26 | <p>F: V: T:</p> <p>Sectional completion (Clause 28).</p> | Item |
| 27 | <p>F: V: T:</p> <p>Revision of date for practical completion (Clause 29).</p> | Item |
| 28 | <p>F: V: T:</p> <p>The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)</p> <p>Penalty for non-completion (Clause 30).</p> | Item |
| 29 | <p>F: V: T:</p> <p><u>PAYMENT</u></p> <p>Interim payment to the contractor (Clause 31).</p> <p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.</p> | Item |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

| Brought Forward | | R |
|------------------------|--|------|
| | <p>Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.</p> <p>Adjustment to the contract value (Clause 32).</p> | |
| 30 | <p>F: V: T:</p> <p>Recovery of expense and loss (Clause 33).</p> | Item |
| 31 | <p>F: V: T:</p> <p>Final account and final payment (Clause 34).</p> | Item |
| 32 | <p>F: V: T:</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p> | Item |
| 33 | <p>Payment to other parties (Clause 35).</p> <p>F: V: T:</p> | Item |
| | <p><u>CANCELLATION</u></p> <p>Cancellation by Employer - Contractor's default (Clause 36).</p> | |
| | Carried Forward | R |
| | <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | |

| Brought Forward | | R |
|--|---|------|
| 34 | F: V: T: Cancellation by Employer - Loss and damage (Clause 37). | Item |
| 35 | F: V: T: Cancellation by Contractor - Employer's default (Clause 38). | Item |
| 36 | F: V: T: Cancellation - Cessation of the works (Clause 39). | Item |
| 37 | F: V: T: <u>DISPUTE</u> Dispute Settlement (Clause 40) | Item |
| 38 | F: V: T: <u>SUBSTITUTE PROVISIONS</u> State Clauses (Clause 41) | Item |
| 39 | F: V: T: <u>CONTRACT VARIABLES</u> The Schedule: Pre-Tender information (Clause 42). | Item |
| 40 | F: V: T: <u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u> Employer: The Mvula Trust Principal Agent: As per the information on the Tender Data Architect: Quantity Surveyor: Civil Engineer: | Item |
| Carried Forward | | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | | |

Brought Forward

R

Structural Engineers:

Carried Forward

R

Section No. 1
Preliminaries & Generals
Bill No. 1
Preliminaries

| Brought Forward | R |
|--|---|
| <p><u>CONTRACT DETAILS (Clause 42.2)</u></p> | |
| <p>Clause 42.2.1</p> | |
| <p>Works Description: Construction of new ablution facilities.</p> | |
| <p>Clause 42.2.2</p> | |
| <p>Site Description: The site is the existing school.</p> | |
| <p>Clause 42.2.3</p> | |
| <p>Work or Installations by Others: NIL</p> | |
| <p>Clause 42.2.4</p> | |
| <p>This Agreement is for a State Contract :- Yes</p> | |
| <p>Payment will be made for materials and goods:- Yes</p> | |
| <p>Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.</p> | |
| <p>Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A</p> | |
| <p>Clause 42.2.5</p> | |
| <p>Date on which possession of the site is intended to be given on :-</p> | |
| <p>To be advised.</p> | |
| <p>Clause 42.2.6</p> | |
| <p>Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.</p> | |
| <p>Completion in Sections are required : NO</p> | |
| <p>Clause 42.2.7</p> | |
| <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> | |
| <p>To be advised.</p> | |
| <p></p> | |
| <p>Carried Forward</p> | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | |

| Brought Forward | R |
|---|----------|
| Penalty amount will be 5,75c/R100 of Contract Sum. | |
| Clause 42.2.8 | |
| Intended dates of practical completion and the penalties per calendar day for the works in sections : | |
| N/A | |
| Clause 42.2.9 | |
| The law applicable to this agreement shall be that of - Republic of South Africa. | |
| <u>INSURANCES (Clause 42.3)</u> | |
| Clause 42.3.1 | |
| Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 20% | |
| With a deductible of : Not exceeding 5% of each and every claim. | |
| Clause 42.3.2 | |
| Supplementary insurance is required : Yes | |
| SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy). | |
| Clause 42.3.3 | |
| Public liability insurance to be effected by Contractor | |
| For the amount of: R 5million | |
| With a deductible of: Not exceeding 5% of each and every claim. | |
| <u>DOCUMENTS (Clause 42.4)</u> | |
| Clause 42.4.1 | |
| Waiver of the contractor's lien is required :- YES | |
| Carried Forward | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | |

| Brought Forward | | R |
|---|---|------|
| | <p>Clause 42.4.2</p> <p>Number of construction document copies to be supplied to the Contractor free of charge :- 3</p> <p>Clause 42.4.3</p> <p>Bills of Quantities drawn up in accordance with :-</p> <p>Standard System of Measuring Building Work - Seventh Edition including all amendments</p> <p>Clause 42.4.4</p> <p>Number of days for submission of priced documents : 5 working days from the Letter of Appointment.</p> <p>Clause 42.4.5</p> <p>JBCC Engineering General Conditions are to be included in the documents :- No</p> <p>Clause 42.4.6</p> <p>The contract value is to be adjusted using CPAP:- NO</p> | |
| <u>SECTION B: PRELIMINARIES</u> | | |
| <u>DEFINITIONS AND INTERPRETATION (B1)</u> | | |
| | Definitions and Interpretation (B1) | |
| 41 | F: V: T: | Item |
| <u>DOCUMENTS (B2)</u> | | |
| | Checking of documents (B2.1) | |
| | Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc. | |
| 42 | F: V: T: | Item |
| | Provisional Bills of Quantities (B2.2) YES | |
| Carried Forward | | R |
| | <p>Section No. 1</p> <p>Preliminaries & Generals</p> <p>Bill No. 1</p> <p>Preliminaries</p> | |

| Brought Forward | | R |
|---|--|------|
| <p>Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.</p> | | |
| 43 | <p>F: V: T:</p> <p>Availability of construction documentation (B2.3)</p> | Item |
| 44 | <p>F: V: T:</p> <p>Interests of Agents (B2.4)</p> | Item |
| 45 | <p>F: V: T:</p> <p>Priced documents (B2.5)</p> | Item |
| 46 | <p>F: V: T:</p> <p>Tender submission (B2.6)</p> <p>Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.</p> | Item |
| 47 | <p>F: V: T:</p> <p><u>THE SITE (B3)</u></p> <p>Defined works area (B3.1)</p> <p>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.</p> <p>Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.</p> <p>The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.</p> | Item |
| 48 | <p>F: V: T:</p> | Item |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

| Brought Forward | | R |
|------------------------|--|------|
| | Geotechnical investigation (B3.2) | |
| | A desktop geotechnical report is available upon request. | |
| 49 | F: V: T: | Item |
| | Inspection of the Site (B3.3) | |
| 50 | F: V: T: | Item |
| | Existing premises occupied (B3.4) | |
| 51 | F: V: T: | Item |
| | Previous work - dimensional accuracy (B3.5) | |
| 52 | F: V: T: | Item |
| | Previous work - defects (B3.6) | |
| 53 | F: V: T: | Item |
| | Services - known (B3.7) | |
| 54 | F: V: T: | Item |
| | Services - unknown (B3.8) | |
| 55 | F: V: T: | Item |
| | Protection of trees (B3.9) | |
| 56 | F: V: T: | Item |
| | Articles of value (B3.10) | |
| 57 | F: V: T: | Item |
| | Inspection of adjoining properties (B3.11) | |
| 58 | F: V: T: | Item |
| | <u>MANAGEMENT OF CONTRACT (B4)</u> | |
| | Management of the Works (B4.1) | |
| 59 | F: V: T: | Item |
| | Carried Forward | |
| | Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | R |

| Brought Forward | | R |
|------------------------|---|------|
| | Programme for the Works (B4.2) | |
| 60 | F: V: T: | Item |
| | Progress meetings (B4.3) | |
| 61 | F: V: T: | Item |
| | Technical meetings (B4.4) | |
| 62 | F: V: T: | Item |
| | <u>SAMPLES AND SHOP DRAWINGS (B5)</u> | |
| | Samples of materials (B5.1) | |
| 63 | F: V: T: | Item |
| | Workmanship samples (B5.2) | |
| 64 | F: V: T: | Item |
| | Shop drawings (B5.3) | |
| 65 | F: V: T: | Item |
| | <u>TEMPORARY WORKS AND PLANT (B6)</u> | |
| | Deposits and fees (B6.1) | |
| 66 | F: V: T: | Item |
| | Enclosure of the works (B6.2) | |
| | The contractor shall erect, maintain and remove at completion, hoardings, 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. | |
| 67 | F: V: T: | Item |
| | Advertising (B6.3) | |
| 68 | F: V: T: | Item |
| | Carried Forward | R |
| | Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | |

| Brought Forward | | R |
|--|--|------|
| 69 | <p>Plant and equipment (B6.4)</p> <p>F: V: T:</p> <p>Main notice board (B6.5)</p> <p>One notice board shall be provided by the Contractor</p> | Item |
| 70 | <p>F: V: T:</p> <p>Subcontractors notice board (B6.6) (N/A)</p> | Item |
| 71 | <p>F: V: T:</p> <p><u>TEMPORARY SERVICES (B7)</u></p> <p>Location (B7.1)</p> | Item |
| 72 | <p>F: V: T:</p> <p>Water (B7.2)</p> <p>The contractor shall provide water for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> | Item |
| 73 | <p>F: V: T:</p> <p>Electricity (B7.3)</p> <p>The contractor shall provide electricity for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> | Item |
| 74 | <p>F: V: T:</p> <p>Telecommunication equipment (B7.4)</p> <p>The contractor shall provide telephones on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> | Item |
| 75 | <p>F: V: T:</p> <p>Ablution facilities (B7.5)</p> | Item |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

| Brought Forward | | R |
|------------------------|---|------|
| | The contractor shall provide toilet facilities on site for the works in accordance with: | |
| | Alternative A (i.e. to be provided for by the Contractor). | |
| 76 | F: V: T: | Item |
| | <u>PRIME COST AMOUNTS (B8)</u> | |
| | Responsibility for prime cost amounts (B8.1) | |
| 77 | F: V: T: | Item |
| | <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> | |
| | General Attendance (B9.1) | |
| 78 | F: V: T: | Item |
| | Special Attendance (B9.2) | |
| 79 | F: V: T: | Item |
| | Commissioning - fuel, water and power (B9.3) | |
| 80 | F: V: T: | Item |
| | <u>FINANCIAL ASPECTS (B10)</u> | |
| | Statutory taxes, duties and levies (B10.1) | |
| | Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT). | |
| 81 | F: V: T: | Item |
| | Payment of Preliminaries (B10.2) | |
| 82 | F: V: T: | Item |
| | Adjustment of Preliminaries (B10.3) | |
| 83 | F: V: T: | Item |
| | Payment certificate cash flow (B10.4) | |
| 84 | F: V: T: | Item |
| | Carried Forward | R |
| | Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | |

| Brought Forward | | R |
|--|---|------|
| 85 | Contractor information supply (B10.5) F: V: T: | Item |
| <u>GENERAL (B11)</u> | | |
| 86 | Protection of the Works (B11.1) F: V: T: | Item |
| 87 | Protection/isolation of existing/sectionally occupied works (B11.2) F: V: T: | Item |
| 88 | Site security (B11.3) F: V: T: | Item |
| 89 | Notice before covering work (B11.4) F: V: T: | Item |
| 90 | Disturbance (B11.5) F: V: T: | Item |
| 91 | Environmental Disturbances (B11.6) F: V: T: | Item |
| 92 | Works cleaning and clearing (B11.7) F: V: T: | Item |
| 93 | Vermin (B11.8) F: V: T: | Item |
| 94 | Overhand work (B11.9) F: V: T: | Item |
| Carried Forward | | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | | |

| Brought Forward | | R |
|---|---|----------------------|
| | Instruction manuals and guarantees (B11.10) | |
| 95 | F: V: T: | Item |
| | As built information (B11.11) | |
| 96 | F: V: T: | Item |
| 97 | Tenant installations (B11.12) | N/A |
| 98 | F: V: T: | Item |
| <u>SCHEDULE OF VARIABLES</u> | | |
| | Pre-tender information | |
| 99 | F: V: T: | Item |
| <p>This schedule contains all variables referred to in this document and is divided into pretender 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> | | |
| 12.1 PRE TENDER INFORMATION | | |
| 12.1.1 Provisional Bills of Quantities | | |
| | [2.2] The quantities are provisional | <u>YES/NO</u> |
| 12.1.2 Availability of construction documentation | | |
| | [2.3] Construction of documentation is complete | <u>YES/NO</u> |
| 12.1.3 Interest of agents | | |
| 12.1.4 Defined works area | | |
| | [3.1] Details: | |
| 12.1.5 Geotechnical investigation | | |
| | [3.2] Details: (N/A) | |
| 12.1.6 Existing premises occupied | | |
| | [3.4] Specific requirements: Yes | |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

| | Brought Forward | R | |
|---|------------------------|---|--|
| <p>12.1.7 Previous work - dimensional accuracy [3.5] Details: N/A</p> | | | |
| <p>12.1.8 Previous work - defects [3.6} Details:N/A</p> | | | |
| <p>12.19. Services - known [3.7] Details:(N/A)</p> | | | |
| <p>12.1.10 Protection of trees [3.9] Specific requirements:(N/A)</p> | | | |
| <p>12.1.11 Inspection of adjoining properties [3.11] Specific requirements:(N/A)</p> | | | |
| <p>12.1.12 Enclosure of the works [6.2} Specific requirements: Yes</p> | | | |
| <p>12.1.13 Offices [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</p> | | | |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | Carried Forward | R | |

| Brought Forward | | R |
|--|----------------------|---|
| 12.1.14 Main notice board (As per EPWP specification) | | |
| [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering. | | |
| 12.1.15 Subcontractors' notice board | | |
| [6.6] Specific requirements: | <u>NO</u> | |
| 12.1.16 Water | | |
| [7.2] <u>Option A (by contractor)</u> | <u>YES</u> | |
| Option B (by employer - free of charge) | <u>NO</u> | |
| Option C (by employer - metered) | <u>NO</u> | |
| 12.1.17 Electricity | | |
| [7.3] <u>Option A (by contractor)</u> | <u>YES</u> | |
| Option B (by employer - free of charge) | <u>NO</u> | |
| Option C (by employer - metered) | <u>NO</u> | |
| 12.1.18 Telecommunications | | |
| [7.4] <u>Telephone</u> | <u>YES/NO</u> | |
| <u>Facsimile</u> | <u>YES/NO</u> | |
| <u>E-mail</u> | <u>YES/NO</u> | |
| Carried Forward | | R |
| Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries | | |

| | | | |
|---|--|---|--|
| <p style="text-align: right;">Brought Forward</p> <p>12.1.19 Ablution facilities [7.5] <u>Option A (by contractor)</u> <u>YES</u> Option B (by employer) <u>NO</u></p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required <u>YES/NO</u></p> <p>12.1.21 Special attendance [9.2] Subcontractor (1) details: N/A Subcontractor (2) details: N/A Subcontractor (3) details: N/A Subcontractor (4) details: N/A</p> <p>12.1.22 Protection of works [11.1] Specific requirements:</p> <p>12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</p> <p>12.1.24 Environmental disturbance [11.6] Specific requirements: N/A</p> <p>12.2 POST-TENDER INFORMATION</p> <p>12.2.1 Payment of preliminaries [10.2] Option A (prorated) <u>YES</u> Option B (calculates) <u>NO</u></p> | | R | |
| <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | R | |

Brought Forward

R

12.2.2 **Adjustment of preliminaries**
 [10.3] Option A (three categories)

YES

Option B (detailed breakdown)

NO

12.2.3 **Additional agreed preliminaries items**
 Details: N/A

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

100 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

101 F: V: T:

Item

C3. Contractors responsibility

Carried Forward

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

Brought Forward

R

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

102 F: V: T:

Item

C4. Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

103 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

104 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

- a) Construction Instruction Book:

Carried Forward

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

Brought Forward

R

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.

105 F: V: T:

Item

C7. Labour record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.

106 F: V: T:

Item

C8. Plant record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.

107 F: V: T:

Item

C9. Encroachment

Carried Forward

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

Brought Forward

R

During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.

108 F: V: T:

Item

C10. Method Statement

The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.

109 F: V: T:

Item

C11. Unauthorised Persons/Workmen on Premises

The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.

No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.

110 F: V: T:

Item

C12. Mode of Procedure

Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.

Carried Forward

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

| Brought Forward | | R |
|--|-------------|---|
| <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> | | |
| <p>111 F: V: T:</p> <p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> | <p>Item</p> | |
| <p>112 F: V: T:</p> <p><u>C14. Office accommodation</u></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> | <p>Item</p> | |
| <p>113 F: V: T:</p> <p><u>C15. Storage Facilities</u></p> | <p>Item</p> | |
| <p>114 The Contractor shall provide a Container for storage of materials.</p> | <p>Item</p> | |
| <p>115 F: V: T:</p> <p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> | <p>Item</p> | |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

| Brought Forward | | R |
|--|---|------|
| 116 | <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> <p>F: V: T:</p> <p>C17 Occupational Health and Safety Specification</p> <p>Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION for RAMONOKANE PRIMARY SCHOOL annexed to the Bills of Quantities) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification</p> <p>For compliance with Occupational health and Safety Act 1993 as amended, The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works that will include provision for COVID-19 Regulations. 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification | Item |
| 117 | <p>F: V: T:</p> | Item |
| Carried Forward | | R |
| <p>Section No. 1 Preliminaries & Generals Bill No. 1 Preliminaries</p> | | |

Brought Forward

R

C18 Guarantees

Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement

118 F: V: T:

Item

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Final Summary

R

Section No. 1
 Preliminaries & Generals
 Bill No. 1
 Preliminaries

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 1 EARTHWORKS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Nature of material to be excavated</u></p> | | | |
| <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> | | | |
| <p><u>Classification of excavated material</u></p> | | | |
| <p>Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.</p> | | | |
| <p>Soft rock" shall mean hard material the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 1 Earthworks</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|---|----|----|
| <u>Carting away of excavated material</u> | | | |
| 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 | | | |
| <u>Dewatering of excavations</u> | | | |
| The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise | | | |
| Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water | | | |
| <u>Density testing on filling</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>EXCAVATION, ETC</u> | | | |
| <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Trenches. | m3 | 22 |
| 2 | Reduce levels | m3 | 27 |
| <u>Extra over trench and hole excavations in earth for excavation in</u> | | | |
| 3 | Soft rock. | m3 | 2 |
| 4 | Hard rock. | m3 | 1 |
| <u>Extra over all excavations for carting away:</u> | | | |
| 5 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 12 |
| Carried Forward | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 1 Earthworks | | | |

| Brought Forward | | | R |
|---|---|----|------|
| <u>Risk of collapse of excavations:</u> | | | |
| 6 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 63 |
| <u>Keeping excavations free of water:</u> | | | |
| 7 | Keeping excavations free from mud and all water including subterranean sources. | | Item |
| <u>EARTH FILLING, ETC.</u> | | | |
| <u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u> | | | |
| 8 | Backfilling to trenches, holes, etc. | m3 | 10 |
| <u>Filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| <u>Filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| 9 | Under floors, steps, pavings, etc. | m3 | 17 |
| <u>Compaction of surfaces:</u> | | | |
| 10 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 42 |
| <u>Prescribed density tests on filling:</u> | | | |
| 11 | Allow for compaction tests by an approved laboratory to determine density of filling material. | No | 1 |
| <u>SOIL POISONING</u> | | | |
| <u>Soil insecticide</u> | | | |
| 12 | Under floors including any preparation, levelling, etc. | m2 | 42 |
| 13 | To bottoms and sides of trenches etc | m2 | 88 |
| Carried Forward to Summary of Section No. 2 | | | R |
| Section No. 2 | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | |
| Bill No. 1 | | | |
| Earthworks | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 2 CONCRETE, FORMWORK & REINFORCEMENT</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Cost of tests:</u></p> | | | |
| <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> | | | |
| <p><u>Formwork:</u></p> | | | |
| <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> | | | |
| <p>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.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 2 Concrete,Formwork, Reinforcement</p> | | | R |

| Brought Forward | | | R |
|--|--|------|----|
| <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> | | | |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| <u>25MPa/19mm concrete</u> | | | |
| 1 | Surface beds cast in panels on waterproofing | m3 | 5 |
| 2 | Strip footing (Provisional). | m3 | 7 |
| <u>CONCRETE TESTING</u> | | | |
| <u>Concrete tests</u> | | | |
| 3 | Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional). | Sets | 2 |
| <u>SUNDRIES</u> | | | |
| <u>Finishing top surfaces of concrete smooth with a power float</u> | | | |
| 4 | Surface beds, slabs, etc | m2 | 42 |
| <u>MOVEMENT JOINTS</u> | | | |
| <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | | |
| 5 | 10mm Joints not exceeding 300mm high | m | 42 |
| Carried Forward | | | R |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 2 Concrete,Formwork, Reinforcement</p> | | | |

| Brought Forward | | | | R |
|--|--|----|------|---|
| | <u>Saw cut joints and seal with flexible polyurethane sealant (sikaflex 11FC or equally approved) directly after sawing</u> | | | |
| 6 | 6 x 30mm Saw cut joints in two operations on top of concrete | m | 4 | |
| | <u>STEEL REINFORCEMENT (PROVISIONAL)</u> | | | |
| | <u>Mild steel reinforcement to structural concrete work</u> | | | |
| 7 | Steel reinforcing in various Diameter bars | t | 0.59 | |
| | <u>Mesh reinforcement</u> | | | |
| 8 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 42 | |
| Carried Forward to Summary of Section No. 2 | | | | R |
| Section No. 2 | | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | | |
| Bill No. 2 | | | | |
| Concrete,Formwork, Reinforcement | | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 3 MASONRY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Sizes in descriptions</u></p> | | | |
| <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> | | | |
| <p><u>Hollow walls etc</u></p> | | | |
| <p>Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> | | | |
| <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> | | | |
| <p><u>Cement mortar</u></p> | | | |
| <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 3 Masonry</p> | | | |
| | | R | |

| Brought Forward | | | R |
|--|---|----|-----|
| <u>Face bricks</u> | | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | | |
| <u>Pointing</u> | | | |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | |
| <u>Brickwork Bond</u> | | | |
| All brickwork shall be laid in stretcher bond unless otherwise stated | | | |
| <u>Wire ties</u> | | | |
| All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties | | | |
| <u>Samples, etc</u> | | | |
| Rates for brickwork, faced brickwork, etc shall include for all required samples | | | |
| <u>FOUNDATIONS (PROVISIONAL)</u> | | | |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u> | | | |
| 1 | One brick walls | m2 | 21 |
| <u>BRICKWORK SUNDRIES</u> | | | |
| <u>Ties and Cramps</u> | | | |
| 2 | 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. | No | 76 |
| <u>Brick reinforcement</u> | | | |
| 3 | 75 mm wide reinforcement built in horizontally | m | 212 |
| 4 | 150 mm wide reinforcement built in horizontally | m | 574 |
| 5 | Ditto, but in foundations (Provisional). | m | 142 |
| Carried Forward | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 3 Masonry | | | |

| Brought Forward | | | R |
|---|--|----|-----|
| <u>Concrete prestressed fabricated lintels</u> | | | |
| 6 | 110 x 75mm Lintels | m | 47 |
| <u>"Terracotta" Air bricks etc</u> | | | |
| 7 | Set of two 230 x 160mm high terra cotta clay vermin proof air bricks including making good reveals and gauze | No | 15 |
| <u>FACE BRICKWORK</u> | | | |
| <u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u> | | | |
| 8 | Half brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 46 |
| 9 | One brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 113 |
| <u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all exposed faces:</u> | | | |
| 10 | Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 110mm soffit | m | 12 |
| 11 | 220mm Wide sill set sloping and slightly projecting pointed on top and front edge | m | 9 |
| Carried Forward to Summary of Section No. 2 | | | R |
| Section No. 2 | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | |
| Bill No. 3 | | | |
| Masonry | | | |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 4 WATERPROOFING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</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>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | | |
| 1 | Under surface beds | m2 | 42 | |
| | <u>One layer of 375 micron black embossed polyplefin damp proof course complying with SANS 952 type B</u> | | | |
| 2 | On walls, under cills, etc. | m2 | 10 | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 4 Waterproofing | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 5 ROOF COVERINGS, ETC</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Fixing:</u></p> | | | |
| <p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.</p> | | | |
| <p><u>Guarantee:</u></p> | | | |
| <p>The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.</p> | | | |
| <p><u>Pricing:</u></p> | | | |
| <p>Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).</p> | | | |
| <p><u>ROOF SHEETING AND ACCESSORIES</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 5 Roof Covering, etc</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>0.6mm thick ISQ550 "Klip-lock" Z200 galvanised steel roof sheeting coated with Chromadeck (Colour: TBA) on one side , fixed to timber purlins using KL700 plus clips and heavy duty industrial gauge accessories fixed complete in strict accordance with the manufacturer's recommendations.</u> | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 53 |
| 2 | Barge capping 430mm girth | m | 11 |
| <u>ROOF AND WALL INSULATION</u> | | | |
| | <u>4mm laminated radiant thermal barrier sheet, constructed of a layer of low density polyethylene air cells, laminated between a white polyethylene sheet on underside, and a fibre reinforced aluminium foil top surface. Insulation to meet fire performance requirements of SANS 428:2007.</u> | | |
| 3 | Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 53 |
| Carried Forward to Summary of Section No. 2 | | | |
| Section No. 2 | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | |
| Bill No. 5 | | | |
| Roof Covering, etc | | | |
| | | | R |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 6 CARPENTRY AND JOINERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Roof trusses</u></p> | | | |
| <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> | | | |
| <p><u>Joinery</u></p> | | | |
| <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> | | | |
| <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> | | | |
| <p><u>Decorative laminate finish</u></p> | | | |
| <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |
| | | | R |

Brought Forward

R

Fixing

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

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

Where items are described as "bolted" the bolts have been measured elsewhere

NOTE:For pricing of the structural roof trusses, tenderers are referred to the drawings included at the end of these Bills of Quantities

GENERAL NOTES TO TENDERERS

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Carried Forward

R

Section No. 2
SFD4+SM2+2UR - Educators Ablutions
Bill No. 6
Carpentry and Joinery

| Brought Forward | | | R |
|--|--|----|----|
| <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> | | | |
| <u>ROOFS ETC</u> | | | |
| <u>Sawn softwood:</u> | | | |
| 1 | 38 x 114mm Wall plate. | m | 11 |
| 2 | 38 x 114mm Rafters. | m | 48 |
| 3 | 50 x 76mm Purlins | m | 28 |
| <u>Sundries:</u> | | | |
| 4 | Two coats creosote on sawn softwood timber | m2 | 19 |
| <u>EAVES, VERGES, ETC</u> | | | |
| <u>Fibre Cement:</u> | | | |
| 5 | 225 x 12mm Pressed fibre cement fascia boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 23 |
| 6 | 200 x 80mm Pressed fibre cement barge boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 9 |
| Carried Forward | | | R |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |

Brought Forward

R

DOORS AND PANELS

Tenderers are referred to Architect's Door & Window Schedules accompanying these Bills of Quantities for tender purposes.

Wrought meranti:

7 44mm thick framed, ledged and braced external flush door size 915 x 2032mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round (T01)

No

3

8 44mm thick framed, ledged and braced cubicle flush door size 813 x 1882mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round with door raised by 150mm from bottom(T02)

No

6

Carried Forward to Summary of Section No. 2

Section No. 2
SFD4+SM2+2UR - Educators Ablutions
Bill No. 6
Carpentry and Joinery

R

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> | | | |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> | | | |
| <p><u>Proprietary suspended ceilings</u></p> | | | |
| <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> | | | |
| <p><u>NAILED UP CEILINGS</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | |
| | | | R |

| Brought Forward | | | | R |
|---|--|----|----|---|
| <p><u>9.5mm "Rhino" gypsum plasterboard ceilings with H-type pressed steel jointing laid in a staggered pattern</u></p> | | | | |
| 1 | Ceilings including 38 x 50mm sawn softwood branderling at not exceeding 400mm centres in one direction | m2 | 40 | |
| 2 | 75mm Coved gypsum ceiling. | m | 29 | |
| <p>Carried Forward to Summary of Section No. 2</p> | | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | | |
| | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 8 IRONMONGERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Finishes to ironmongery</u></p> | | | |
| <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> | | | |
| <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 8 Ironmongery</p> | | | |
| | | | R |

| Brought Forward | | R |
|---|--|-------------|
| <u>Fixing</u> | | |
| Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories | | |
| Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer | | |
| <u>Note: Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u> | | |
| <u>LOCKS</u> | | |
| The following locks are to be suitable for master key operation | | |
| <u>"Union" or other approved</u> | | |
| 1 | D036S-SS Cylinder sash lock, case dimensions (mm) 116.5H x 78D, forend dimension(mm) 168H x 22W, backset 57mm with 61mm centres. | No 6 |
| 2 | DBC006601 66mm Euro-profile bathroom/privacy cylinder | No 6 |
| 3 | DSC104301 MK 43mm five pin Euro-profile single cylinder, master keyed | No 2 |
| 4 | D037D SS Cylinder deadlock, case dimensions(mm) 116.5H x 78D. Forend dimensions(mm) 168H x 22W (Stainless Steel) | No 2 |
| 5 | DMWC-SS-008 Bathroom deadlock, case dimensions(mm) 38H x 76D. Forend dimensions(mm) 78H x 22.5W (Stainless Steel) | No 1 |
| 6 | DCE-002 SS Round cylinder escutcheon (Stainless Steel) | Sets 2.0 |
| 7 | DWC-006 Disabled WC indicator (Red & White) and turnknob for physically impaired (Stainless Steel) | Sets 1.0 |
| <u>HANDLES</u> | | |
| Carried Forward | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 8 Ironmongery | | |

| Brought Forward | | | R |
|--|---|------|-----|
| <u>"Union" or equally approved:</u> | | | |
| 8 | CB30 CylS.C Lever handle on plate with cylinder cut out | Sets | 6.0 |
| 9 | DPH301C BTB 149x19mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 4 |
| 10 | DPH213 BTB 38x32mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 2 |
| <u>PUSH PLATES AND KICKING PLATES</u> | | | |
| <u>"Solid"</u> | | | |
| 11 | 144 x 300 x 1.2mm Thick stainless steel plate "Grade 430" drilled and countersunk, twice bent and extending 50mm on both faces of door (as indicated on schedule) | No | 3 |
| 12 | DKP-304-SF 200 x 915 x 1.2mm Thick stainless steel kick plate "Grade 304" to have 10 countersunk holes for screw fixing (Special Order) | No | 2 |
| <u>DOOR CLOSERS</u> | | | |
| <u>"Solid"</u> | | | |
| 13 | TS73V-SL EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing (Silver) (Regular Arm Bracket Included) | Sets | 2.0 |
| 14 | TS73V PA DC-PAB-SL EN 2-4 parallel Arm DELAYED ACTION Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Silver) (Parallel Arm Bracket Included) | Sets | 1.0 |
| <u>LETTERS, NAMEPLATES, ETC</u> | | | |
| <u>Stainless steel</u> | | | |
| 15 | DSS-130 M 150 x 150mm MALE sign | No | 1 |
| 16 | DSS-131 F 150 x 150mm FEMALE sign | No | 1 |
| 17 | DSS-133 P 150 x 150mm DISABLED PERSONS sign | No | 1 |
| <u>BATHROOM FITTINGS</u> | | | |
| Carried Forward | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 8 Ironmongery | | | |

| Brought Forward | | | R |
|--|--|----|---|
| <u>Stainless steel</u> | | | |
| 18 | Wall mounted lockable Toilet Paper Dispenser-3 Roll-TR3 | No | 7 |
| 19 | 20Litre rust resistant, S/S Satin finish surface mounted sanitary bin overall size 355 x 460 x 186mmm as per architect's specification (Code:N-SBIN-20-SS) | No | 5 |
| 20 | Golden touch lockable wall mounted soap dispenser with 1.2litre capacity | No | 3 |
| 21 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel wall mounted paper towel dispenser (Code:359700), size 300 x 134 x 304mm deep, capacity of 300-400 towels, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws. | No | 3 |
| 22 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel 18 Litre wall mounted waste bin | No | 3 |
| <u>SUNDRIES</u> | | | |
| <u>Solid</u> | | | |
| 23 | DDS-SS-017 Floor Mounted Door Stop (Stainless Steel) | No | 3 |
| 24 | DHC-SS-031B dormakaba hat and coat hook with rubber buffer | No | 9 |
| Carried Forward to Summary of Section No. 2 | | | |
| Section No. 2 | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | |
| Bill No. 8 | | | |
| Ironmongery | | | |
| | | | R |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 9 METALWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <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 of concrete | | | |
| | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described | | | |
| | <u>PRESSED STEEL DOOR FRAMES</u> | | | |
| | <u>1,6mm Single rebated frames suitable for one brick walls</u> | | | |
| 1 | Frame for single door 915 x 2032mm high | No | 3 | |
| | <u>1,2mm Single rebated frames suitable for half brick walls</u> | | | |
| 2 | Frame for single door 813 x 2032mm high | No | 6 | |
| | <u>PRESSED STEEL WINDOWS, ETC.</u> | | | |
| | Carried Forward | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 9 Metalwork | | | |

| Brought Forward | | R |
|---|--|---|
| <u>School type windows</u> | | |
| 3 | Standard window type NE1, size 533 x 654mm high including pre-installed burglar bars | 8 |
| 4 | Standard window type NE7, size 1022 x 654mm high including pre-installed burglar bars | 5 |
| <u>STEEL GATES, SCREENS, ETC</u> | | |
| <u>Welded screens and gates to concrete or brickwork</u> | | |
| Tenderers are referred to Architects Gate Schedules accompanying these Bills of Quantities for tender purposes. | | |
| 5 | Custom made mild steel security gate size 925 x 2082mm high comprising of 50 x 38 x 1.6mm rectangular hollow section frame, 30 x 28 x 1.6mm rectangular hollow section gate opening frame fitted with 25 x 25 x 1.6mm square hollow section intermediates welded to frame at 100mm c/c at 45 degree angle, two bullet hinges welded to frame, 6No angle lugs welded to frame, holed to and plugged with M12 chemical anchors, including double throw dead lock locking mechanism | 3 |
| Carried Forward to Summary of Section No. 2 | | |
| Section No. 2 | | |
| SFD4+SM2+2UR - Educators Ablutions | | |
| Bill No. 9 | | |
| Metalwork | | |
| | | R |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 10 PLASTERING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>SCREEDS</u> | | | |
| | <u>Screed</u> | | | |
| 1 | 40mm Thick on floors finished with wood trowel to a level finish | m2 | 43 | |
| | <u>Prepare screeded surfaces as described, prime with three component' primer (3m²/1 litre) and apply three component coloured epoxy screed and two coats HACCP International certified anti antimicrobial treated non-slip polyurethane resin floor sealer:</u> | | | |
| 2 | 4-6mm Thick on floors to falls and currents | m2 | 42 | |
| | <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> | | | |
| 3 | 30 x 3mm Flat section brass dividing strips between differing floor finishes | m | 3 | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 10 Plastering | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 11 TILING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Fixing</u></p> | | | |
| <p>Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding</p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>WALL TILING</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 11 Tiling</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|---|---|
| <p><u>600 x 600 x 6mm thick first grade glazed porcelein wall tiles with tile wear rating 4 fixed to plaster (plaster elsewhere) with tile adhesive with 3mm joints continuous in both directions, jointed and flush pointed with professional high performance mould and bacteria resistant tile grout installed in strict accordance with the manufacturer's instructions on:</u></p> | | |
| 1 | <p>On walls in isolated panels, splashbacks, etc</p> <p><u>SUNDRIES</u></p> <p><u>"Kirk Marketing" or equal approved corner protectors, dividing strips, edge trims, covers, etc:</u></p> | 3 |
| 2 | <p>12mm Aluminium straight edge trim fixed in accordance to manufacturer's recommendations (Code:ASQE120).</p> | 5 |
| <p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 11 Tiling</p> | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 2</u></p> | | | |
| <p><u>BILL NO. 12 PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content</p> | | | |
| <p><u>"Polycop" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> | | | |
| <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> | | | |
| <p>All pipe diameters are nominal external</p> | | | |
| <p><u>"Polylink" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> | | | |
| <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 12 Plumbing and Drainage(Provisional)</p> | | | |
| | | | R |

| | |
|---|----------|
| <p style="text-align: center;">Brought Forward</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> | <p>R</p> |
| <p style="text-align: center;">Carried Forward</p> <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 12 Plumbing and Drainage(Provisional)</p> | <p>R</p> |

Brought Forward

R

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

Copper pipes:

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

Fixing of pipes

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

Chasing

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes

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

Carried Forward

R

Section No. 2
SFD4+SM2+2UR - Educators Ablutions
Bill No. 12
Plumbing and Drainage(Provisional)

Brought Forward

R

Wire gratings

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

Septic tanks

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

Flush pans

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

Carried Forward

R

Section No. 2
SFD4+SM2+2UR - Educators Ablutions
Bill No. 12
Plumbing and Drainage(Provisional)

| Brought Forward | | R |
|--|--|----|
| <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> | | |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable | | |
| <u>Waste unions</u> | | |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings | | |
| <u>Steel sectional water tanks</u> | | |
| Tanks shall comply with SABS CKS 114 | | |
| <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd (or equally approved).</u> | | |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc | | |
| <u>RAINWATER DISPOSAL (PROVISIONAL):</u> | | |
| <u>0.8mm thick continuous hot-dip zinc coated carbon steel or aluminium gutter with chromadek finish colour to architect specifications.</u> | | |
| 1 | 125 x 100 x 0.8mm thick gutters fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets. | 11 |
| 2 | Extra over eaves gutter for stop ends. | 2 |
| 3 | 100 x 100mm rainwater pipes to match existing fixed to walls with and including approved holderbats at 900mm centres. | 5 |
| 4 | Extra over eaves gutter for outlet for 100 x 100mm pipe. | 2 |
| 5 | Extra over rainwater pipe for swan-neck | 2 |
| 6 | Extra over rainwater pipe for bend. | 4 |
| Carried Forward | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | |

| | | Brought Forward | | R |
|----|---|------------------------|---|---|
| 7 | Extra over rainwater pipe for shoe. | No | 2 | |
| | <u>SANITARY FITTINGS</u> | | | |
| | Note: Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8) | | | |
| | <u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion:</u> | | | |
| | <u>White vitreous china or equal approved wash hand basins and pedestals:</u> | | | |
| 8 | Atlas basin and semi pedestal comprises a wall-mounted basin with a semi (or half) pedestal, size 500 x 480mm rounded with three semi-punched tap holes, integrated overflow, and chain stay hole through the centre semi-punched tap hole 2x bolted to wall and sealed with silicone sealant where basin meets wall | No | 5 | |
| | <u>White vitreous china or equal approved WC, etc:</u> | | | |
| 9 | Atlas or equal approved 366 x 275 x 395mm deep back to wall top entry floor mounted open rim pan with jazz thermoset seat including opening for wall mounting (Code: ATLPANBTW0TOPUE) | No | 6 | |
| 10 | Low level Atlas or equal approved raised paraplegic semi close couple suite (Code: PARSETCCB0RAIBE) comprising of vitreous china open rim wash down pan with purpose made thermoset solid hard double flap plastic toilet seat , cover plate and 9 litre cistern with flush pipe and side-flush lever mounted on wall adjacent to cistern fixed complete | No | 1 | |
| | Carried Forward | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | R |
|---|---|----|----|
| 11 | Vitreous china wall hung or equal approved "Atlas" top entry urinal (Code: ATLBOXURI0T40BE) overall size 300 x 400 x 245mm including 38mm chromium plated domical grating and chromium plated top inlet spreader fixed on and including two hanger brackets | No | 2 |
| 12 | Atlas urinal separator 150 x 320 x 630mm high fixed to wall | No | 2 |
| <u>TRAPS, ETC</u> | | | |
| Note: All traps are to include for connectors and fitting to waste outlet at one end and to waste pipe at other end | | | |
| <u>Traps, etc</u> | | | |
| 13 | 32 x 40mm "ELF" anti-vac bottle trap combination for whb | No | 5 |
| <u>TAPS, VALVES, ETC</u> | | | |
| <u>"Cobra Watertech" or equally approved</u> | | | |
| 14 | Chrome plated nile pillar type single lever basin mixer with flow rate restricted to 6.0 litres/ min G1/2 female connection ends. | No | 4 |
| 15 | 15mm Clinix pattern elbow action raised nose pillar tap with aerator with blue indicator for cold water. | No | 1 |
| 16 | 15mm Type 382/10 CP angle regulating valve | No | 12 |
| 17 | FJ6.000CP "Flushmaster Junior" urinal flush valve including flush pipe FJT.5 | No | 2 |
| 18 | Exposed top entry non-hold open feature master standard toilet flush valve with wall flange, integral vacuum breaker and butterfly control inlet including straight flushpipe and compression pan connector. | No | 7 |
| <u>SANITARY PLUMBING</u> | | | |
| Carried Forward | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | | R |
|--|---|----|------|---|
| <u>uPVC pipes</u> | | | | |
| 19 | 50mm Pipes | m | 10 | |
| 20 | 110mm Pipe fixed to walls. | m | 14 | |
| <u>Extra over uPVC pipes for</u> | | | | |
| 21 | 50mm Bend | No | 5 | |
| 22 | 50mm Access bend | No | 5 | |
| 23 | 110mm Pan connector | No | 7 | |
| 24 | 110mm Access bent pan connector with anti-syphon horn | No | 7 | |
| <u>Testing:</u> | | | | |
| 25 | Testing waste pipe system | | Item | |
| <u>WATER SUPPLIES</u> | | | | |
| <u>Class 0 copper pipes</u> | | | | |
| 26 | 15 mm Pipes | m | 51 | |
| 27 | 22 mm Pipes | m | 3 | |
| <u>Extra over class 0 copper pipes for brass capillary fittings</u> | | | | |
| 28 | 15 mm Fittings | No | 34 | |
| 29 | 22 mm Fittings | No | 5 | |
| <u>Testing</u> | | | | |
| 30 | Testing of water pipe system | | Item | |
| Carried Forward to Summary of Section No. 2 | | | | R |
| Section No. 2 | | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | | |
| Bill No. 12 | | | | |
| Plumbing and Drainage(Provisional) | | | | |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------------|------|--------|
| | <u>BILL NO. 13 GLAZING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>Float glass</u> | | | |
| | The term "float glass" is used for monolithic annealed glass | | | |
| | <u>Laminated glass</u> | | | |
| | Laminated glass to have polyvinyl butyral (PVB) interlayer(s) | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | <u>6.28mm Obscure Safety Glass</u> | | | |
| 1 | Panels exceeding 0,1m ² and not exceeding 0,5m ² | m ² | 3 | |
| 2 | Panels exceeding 0,5m ² and not exceeding 2m ² | m ² | 3 | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> | | | |
| | <u>6mm Clear float glass silver backed mirrors with bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u> | | | |
| 3 | Mirror 600 x 800mm high with four screws | No | 5 | |
| | Carried Forward to Summary of Section No. 2 | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 13 Glazing | | | |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 14 PAINTWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>PAINTWORK, ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine, apply one universal undercoat and paint with two coats eggshell enamel paint on:</u> | | | |
| 1 | On fascia and barge boards. | m2 | 9 | |
| | <u>ON PLASTER BOARD</u> | | | |
| | <u>One coat primer and two coats interior quality acrylic PVA emulsion paint.</u> | | | |
| 2 | On ceilings and cornices | m2 | 40 | |
| | <u>ON METAL SURFACES</u> | | | |
| | Carried Forward | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 14 Paintwork | | | |

| Brought Forward | | | R |
|--|--|----|----|
| <p><u>Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:</u></p> | | | |
| 3 | Steel window frames | m2 | 12 |
| 4 | On door frames | m2 | 15 |
| <p><u>Prepare and apply one coat alkyd based zinc chromate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint on:</u></p> | | | |
| 5 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 24 |
| <p><u>ON WOOD</u></p> | | | |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats eggshell enamel or other approved on:</u></p> | | | |
| 6 | On doors | m2 | 32 |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats Polyurethane Alkyd coating or other approved on:</u></p> | | | |
| 7 | General surfaces of timbers | m2 | 19 |
| <p>Carried Forward to Summary of Section No. 2</p> | | | R |
| <p>Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 14 Paintwork</p> | | | |

| Item No | <u>SECTION NO. 2</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 15 APRONS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN APRONS</u> | | | |
| | <u>EXCAVATION</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 1 | Reduce levels under surface beds | m3 | 4 | |
| | Carried Forward | | | R |
| | Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 15 Concrete Aprons | | | |

| Brought Forward | | | R |
|---|--|----|------|
| <u>Extra over all excavations for carting away</u> | | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 4 |
| <u>Keeping excavations free from water</u> | | | |
| 3 | Keeping excavations free from mud and all water other than from subterranean sources | | Item |
| <u>FILLING, ETC</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>Surface bed preparation</u> | | | |
| 4 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 30 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | | |
| 5 | Under floors, etc | m3 | 16 |
| <u>Compaction of surfaces</u> | | | |
| 6 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 30 |
| <u>PROTECTION AGAINST TERMITES</u> | | | |
| <u>Soil insecticide</u> | | | |
| 7 | Under floors including any preparation, levelling, etc. | m2 | 30 |
| Carried Forward | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions Bill No. 15 Concrete Aprons | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| <u>25MPa/19mm concrete</u> | | | |
| 8 | Surface beds cast in panels on waterproofing | m3 | 5 |
| <u>CONCRETE SUNDRIES</u> | | | |
| <u>Finishing top surfaces of concrete smooth with a wood float</u> | | | |
| 9 | Surface beds, slabs, etc to falls | m2 | 30 |
| <u>MOVEMENT JOINTS</u> | | | |
| <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysulphide sealant:</u> | | | |
| 10 | 10mm Joints not exceeding 300mm high | m | 30 |
| <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> | | | |
| <u>Smooth formwork to sides</u> | | | |
| 11 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 30 |
| <u>Fabric reinforcement</u> | | | |
| 12 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 30 |
| <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | | |
| 13 | Under surface beds | m2 | 30 |
| Carried Forward to Summary of Section No. 2 | | | R |
| Section No. 2 | | | |
| SFD4+SM2+2UR - Educators Ablutions | | | |
| Bill No. 15 | | | |
| Concrete Aprons | | | |

SECTION SUMMARY - SFD4+SM2+2UR - Educators Ablutions

| Bill No | | Page No | Amount |
|---|---------------------------------------|---------|--------|
| 1 | Earthworks | 33 | |
| 2 | Concrete,Formwork, Reinforcement | 36 | |
| 3 | Masonry | 39 | |
| 4 | Waterproofing | 40 | |
| 5 | Roof Covering, etc | 42 | |
| 6 | Carpentry and Joinery | 46 | |
| 7 | Ceilings, Partitions, Access Flooring | 48 | |
| 8 | Ironmongery | 52 | |
| 9 | Metalwork | 54 | |
| 10 | Plastering | 55 | |
| 11 | Tiling | 57 | |
| 12 | Plumbing and Drainage(Provisional) | 65 | |
| 13 | Glazing | 66 | |
| 14 | Paintwork | 68 | |
| 15 | Concrete Aprons | 71 | |
| Carried to Final Summary | | | R |
| Section No. 2 SFD4+SM2+2UR - Educators Ablutions | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 1 EARTHWORKS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Nature of material to be excavated</u></p> | | | |
| <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> | | | |
| <p><u>Classification of excavated material</u></p> | | | |
| <p>Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.</p> | | | |
| <p>Soft rock" shall mean hard material the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 1 Earthworks</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|---|----|----|
| <u>Carting away of excavated material</u> | | | |
| 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 | | | |
| <u>Dewatering of excavations</u> | | | |
| The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise | | | |
| Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water | | | |
| <u>Density testing on filling</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>EXCAVATION, ETC</u> | | | |
| <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Trenches. | m3 | 19 |
| 2 | Reduce levels | m3 | 24 |
| <u>Extra over trench and hole excavations in earth for excavation in</u> | | | |
| 3 | Soft rock. | m3 | 2 |
| 4 | Hard rock. | m3 | 1 |
| <u>Extra over all excavations for carting away:</u> | | | |
| 5 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 11 |
| Carried Forward | | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 1 Earthworks | | | |

| Brought Forward | | | R |
|---|---|----|------|
| <u>Risk of collapse of excavations:</u> | | | |
| 6 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 55 |
| <u>Keeping excavations free of water:</u> | | | |
| 7 | Keeping excavations free from mud and all water including subterranean sources. | | Item |
| <u>EARTH FILLING, ETC.</u> | | | |
| <u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u> | | | |
| 8 | Backfilling to trenches, holes, etc. | m3 | 9 |
| <u>Filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| <u>Filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| 9 | Under floors, steps, pavings, etc. | m3 | 15 |
| <u>Compaction of surfaces:</u> | | | |
| 10 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 36 |
| <u>Prescribed density tests on filling:</u> | | | |
| 11 | Allow for compaction tests by an approved laboratory to determine density of filling material. | No | 1 |
| <u>SOIL POISONING</u> | | | |
| <u>Soil insecticide</u> | | | |
| 12 | Under floors including any preparation, levelling, etc. | m2 | 36 |
| 13 | To bottoms and sides of trenches etc | m2 | 76 |
| Carried Forward to Summary of Section No. 3 | | | R |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 1 | | | |
| Earthworks | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 2 CONCRETE, FORMWORK & REINFORCEMENT</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Cost of tests:</u></p> | | | |
| <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> | | | |
| <p><u>Formwork:</u></p> | | | |
| <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 2 Concrete,Formwork, Reinforcement</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|--|------|----|
| <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> | | | |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| <u>25MPa/19mm concrete</u> | | | |
| 1 | Surface beds cast in panels on waterproofing | m3 | 4 |
| 2 | Strip footing (Provisional). | m3 | 6 |
| <u>CONCRETE TESTING</u> | | | |
| <u>Concrete tests</u> | | | |
| 3 | Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional). | Sets | 2 |
| <u>SUNDRIES</u> | | | |
| <u>Finishing top surfaces of concrete smooth with a power float</u> | | | |
| 4 | Surface beds, slabs, etc | m2 | 36 |
| <u>MOVEMENT JOINTS</u> | | | |
| Carried Forward | | | R |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 2 Concrete, Formwork, Reinforcement</p> | | | |

| Brought Forward | | | | R |
|--|---|----|------|---|
| | <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysulphide sealant:</u> | | | |
| 5 | 10mm Joints not exceeding 300mm high | m | 34 | |
| | <u>Saw cut joints and seal with flexible polyurethane sealant (sikaflex 11FC or equally approved) directly after sawing</u> | | | |
| 6 | 6 x 30mm Saw cut joints in two operations on top of concrete | m | 3 | |
| | <u>STEEL REINFORCEMENT (PROVISIONAL)</u> | | | |
| | <u>Mild steel reinforcement to structural concrete work</u> | | | |
| 7 | Steel reinforcing in various Diameter bars | t | 0.51 | |
| | <u>Mesh reinforcement</u> | | | |
| 8 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 36 | |
| Carried Forward to Summary of Section No. 3 | | | | |
| Section No. 3 | | | | |
| GRD7 - Grade R Ablutions | | | | |
| Bill No. 2 | | | | |
| Concrete, Formwork, Reinforcement | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 3 MASONRY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Sizes in descriptions</u></p> | | | |
| <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> | | | |
| <p><u>Hollow walls etc</u></p> | | | |
| <p>Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> | | | |
| <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> | | | |
| <p><u>Cement mortar</u></p> | | | |
| <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 3 Masonry</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|---|----|-----|
| <u>Face bricks</u> | | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | | |
| <u>Pointing</u> | | | |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | |
| <u>Brickwork Bond</u> | | | |
| All brickwork shall be laid in stretcher bond unless otherwise stated | | | |
| <u>Wire ties</u> | | | |
| All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties | | | |
| <u>Samples, etc</u> | | | |
| Rates for brickwork, faced brickwork, etc shall include for all required samples | | | |
| <u>FOUNDATIONS (PROVISIONAL)</u> | | | |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u> | | | |
| 1 | One brick walls | m2 | 18 |
| <u>BRICKWORK SUNDRIES</u> | | | |
| <u>Ties and Cramps</u> | | | |
| 2 | 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. | No | 60 |
| <u>Brick reinforcement</u> | | | |
| 3 | 75 mm wide reinforcement built in horizontally | m | 78 |
| 4 | 150 mm wide reinforcement built in horizontally | m | 549 |
| 5 | Ditto, but in foundations (Provisional). | m | 149 |
| Carried Forward | | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 3 Masonry | | | |

| Brought Forward | | | R |
|---|--|----|-----|
| <u>Concrete prestressed fabricated lintels</u> | | | |
| 6 | 110 x 75mm Lintels | m | 45 |
| <u>"Terracotta" Air bricks etc</u> | | | |
| 7 | Set of two 230 x 160mm high terra cotta clay vermin proof air bricks including making good reveals and gauze | No | 14 |
| <u>FACE BRICKWORK</u> | | | |
| <u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u> | | | |
| 8 | Half brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 14 |
| 9 | One brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 110 |
| <u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all exposed faces:</u> | | | |
| 10 | Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 110mm soffit | m | 11 |
| 11 | 220mm Wide sill set sloping and slightly projecting pointed on top and front edge | m | 8 |
| Carried Forward to Summary of Section No. 3 | | | R |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 3 | | | |
| Masonry | | | |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 4 WATERPROOFING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</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>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | | |
| 1 | Under surface beds | m2 | 36 | |
| | <u>One layer of 375 micron black embossed polyplefin damp proof course complying with SANS 952 type B</u> | | | |
| 2 | On walls, under cills, etc. | m2 | 9 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 4 Waterproofing | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 5 ROOF COVERINGS, ETC</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Fixing:</u></p> | | | |
| <p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.</p> | | | |
| <p><u>Guarantee:</u></p> | | | |
| <p>The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.</p> | | | |
| <p><u>Pricing:</u></p> | | | |
| <p>Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).</p> | | | |
| <p><u>ROOF SHEETING AND ACCESSORIES</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 5 Roof Covering, etc</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>0.6mm thick ISQ550 "Klip-lock" Z200 galvanised steel roof sheeting coated with Chromadeck (Colour: TBA) on one side , fixed to timber purlins using KL700 plus clips and heavy duty industrial gauge accessories fixed complete in strict accordance with the manufacturer's recommendations.</u> | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 49 |
| 2 | Barge capping 430mm girth | m | 8 |
| <u>ROOF AND WALL INSULATION</u> | | | |
| | <u>4mm laminated radiant thermal barrier sheet, constructed of a layer of low density polyethylene air cells, laminated between a white polyethylene sheet on underside, and a fibre reinforced aluminium foil top surface. Insulation to meet fire performance requirements of SANS 428:2007.</u> | | |
| 3 | Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 49 |
| Carried Forward to Summary of Section No. 3 | | | |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 5 | | | |
| Roof Covering, etc | | | |
| | | | R |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 6 CARPENTRY AND JOINERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Roof trusses</u></p> | | | |
| <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> | | | |
| <p><u>Joinery</u></p> | | | |
| <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> | | | |
| <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> | | | |
| <p><u>Decorative laminate finish</u></p> | | | |
| <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |
| | | | R |

Brought Forward

R

Fixing

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

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

Where items are described as "bolted" the bolts have been measured elsewhere

NOTE:For pricing of the structural roof trusses, tenderers are referred to the drawings included at the end of these Bills of Quantities

GENERAL NOTES TO TENDERERS

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Carried Forward

R

Section No. 3
 GRD7 - Grade R Ablutions
 Bill No. 6
 Carpentry and Joinery

| Brought Forward | | | R |
|--|--|----|----|
| <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> | | | |
| <u>ROOFS ETC</u> | | | |
| <u>Sawn softwood:</u> | | | |
| 1 | 38 x 114mm Wall plate. | m | 8 |
| 2 | 38 x 114mm Rafters. | m | 60 |
| 3 | 50 x 76mm Purlins | m | 44 |
| <u>Sundries:</u> | | | |
| 4 | Two coats creosote on sawn softwood timber | m2 | 26 |
| <u>EAVES, VERGES, ETC</u> | | | |
| <u>Fibre Cement:</u> | | | |
| 5 | 225 x 12mm Pressed fibre cement fascia boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 17 |
| 6 | 200 x 80mm Pressed fibre cement barge boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 10 |
| Carried Forward | | | R |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |

Brought Forward

R

DOORS AND PANELS

Tenderers are referred to Architect's Door & Window Schedules accompanying these Bills of Quantities for tender purposes.

Wrought meranti:

7 44mm thick framed, ledged and braced external flush door size 915 x 2032mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round (T01)

No

3

8 44mm thick framed, ledged and braced cubicle flush door size 813 x 1882mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round with door raised by 150mm from bottom(T02)

No

7

Carried Forward to Summary of Section No. 3

Section No. 3
 GRD7 - Grade R Ablutions
 Bill No. 6
 Carpentry and Joinery

R

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> | | | |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> | | | |
| <p><u>Proprietary suspended ceilings</u></p> | | | |
| <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> | | | |
| <p><u>NAILED UP CEILINGS</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | |
| | | | R |

| Brought Forward | | | | R |
|---|--|----|----|---|
| <u>9.5mm "Rhino" gypsum plasterboard ceilings with H-type pressed steel jointing laid in a staggered pattern</u> | | | | |
| 1 | Ceilings including 38 x 50mm sawn softwood branderling at not exceeding 400mm centres in one direction | m2 | 34 | |
| 2 | 75mm Coved gypsum ceiling. | m | 30 | |
| Carried Forward to Summary of Section No. 3 | | | | |
| Section No. 3 | | | | |
| GRD7 - Grade R Ablutions | | | | |
| Bill No. 7 | | | | |
| Ceilings, Partitions, Access Flooring | | | | |
| | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 8 IRONMONGERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Finishes to ironmongery</u></p> | | | |
| <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> | | | |
| <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> | | | |
| <p>Carried Forward</p> | | | R |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 8 Ironmongery</p> | | | |

| Brought Forward | | R |
|---|--|-------------|
| <u>Fixing</u> | | |
| Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories | | |
| Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer | | |
| <u>Note: Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u> | | |
| <u>LOCKS</u> | | |
| The following locks are to be suitable for master key operation | | |
| <u>"Union" or other approved</u> | | |
| 1 | D036S-SS Cylinder sash lock, case dimensions (mm) 116.5H x 78D, forend dimension(mm) 168H x 22W, backset 57mm with 61mm centres. | No 7 |
| 2 | DBC006601 66mm Euro-profile bathroom/privacy cylinder | No 7 |
| 3 | DSC104301 MK 43mm five pin Euro-profile single cylinder, master keyed | No 2 |
| 4 | D037D SS Cylinder deadlock, case dimensions(mm) 116.5H x 78D. Forend dimensions(mm) 168H x 22W (Stainless Steel) | No 2 |
| 5 | DMWC-SS-008 Bathroom deadlock, case dimensions(mm) 38H x 76D. Forend dimensions(mm) 78H x 22.5W (Stainless Steel) | No 1 |
| 6 | DCE-002 SS Round cylinder escutcheon (Stainless Steel) | Sets 2.0 |
| 7 | DWC-006 Disabled WC indicator (Red & White) and turnknob for physically impaired (Stainless Steel) | Sets 1.0 |
| <u>HANDLES</u> | | |
| Carried Forward | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 8 Ironmongery | | |

| Brought Forward | | | R |
|--|---|------|-----|
| <u>"Union" or equally approved:</u> | | | |
| 8 | CB30 CylS.C Lever handle on plate with cylinder cut out | Sets | 7.0 |
| 9 | DPH301C BTB 149x19mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 4 |
| 10 | DPH213 BTB 38x32mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 2 |
| <u>PUSH PLATES AND KICKING PLATES</u> | | | |
| <u>"Solid"</u> | | | |
| 11 | 144 x 300 x 1.2mm Thick stainless steel plate "Grade 430" drilled and countersunk, twice bent and extending 50mm on both faces of door (as indicated on schedule) | No | 3 |
| 12 | DKP-304-SF 200 x 915 x 1.2mm Thick stainless steel kick plate "Grade 304" to have 10 countersunk holes for screw fixing (Special Order) | No | 2 |
| <u>DOOR CLOSERS</u> | | | |
| <u>"Solid"</u> | | | |
| 13 | TS73V-SL EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing (Silver) (Regular Arm Bracket Included) | Sets | 2.0 |
| 14 | TS73V PA DC-PAB-SL EN 2-4 parallel Arm DELAYED ACTION Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Silver) (Parallel Arm Bracket Included) | Sets | 1.0 |
| <u>LETTERS, NAMEPLATES, ETC</u> | | | |
| <u>Stainless steel</u> | | | |
| 15 | DSS-132 U 150 x 150mm UNISEX sign | No | 1 |
| 16 | DSS-133 P 150 x 150mm DISABLED PERSONS sign | No | 1 |
| 17 | DSS-140 E 150 x 150mm EMERGENCY sign | No | 1 |
| <u>BATHROOM FITTINGS</u> | | | |
| Carried Forward | | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 8 Ironmongery | | | |

| Brought Forward | | | R |
|--|--|----|----|
| <u>Stainless steel</u> | | | |
| 18 | Wall mounted lockable Toilet Paper Dispenser-3 Roll-TR3 | No | 8 |
| 19 | Golden touch lockable wall mounted soap dispenser with 1.2litre capacity | No | 3 |
| 20 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel wall mounted paper towel dispenser (Code:359700), size 300 x 134 x 304mm deep, capacity of 300-400 towels, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws. | No | 3 |
| 21 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel 18 Litre wall mounted waste bin | No | 3 |
| <u>SUNDRIES</u> | | | |
| <u>Solid</u> | | | |
| 22 | DDS-SS-017 Floor Mounted Door Stop (Stainless Steel) | No | 3 |
| 23 | DHC-SS-031B dormakaba hat and coat hook with rubber buffer | No | 10 |
| Carried Forward to Summary of Section No. 3 | | | |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 8 | | | |
| Ironmongery | | | |
| | | | R |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 9 METALWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <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 of concrete | | | |
| | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described | | | |
| | <u>PRESSED STEEL DOOR FRAMES</u> | | | |
| | <u>1,6mm Single rebated frames suitable for one brick walls</u> | | | |
| 1 | Frame for single door 915 x 2032mm high | No | 3 | |
| | <u>1,2mm Single rebated frames suitable for half brick walls</u> | | | |
| 2 | Frame for single door 813 x 2032mm high | No | 7 | |
| | <u>PRESSED STEEL WINDOWS, ETC.</u> | | | |
| | Carried Forward | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 9 Metalwork | | | |

| Brought Forward | | R |
|---|--|---|
| <u>School type windows</u> | | |
| 3 | Standard window type NE1, size 533 x 654mm high including pre-installed burglar bars | 8 |
| 4 | Standard window type NE7, size 1022 x 654mm high including pre-installed burglar bars | 4 |
| <u>STEEL GATES, SCREENS, ETC</u> | | |
| <u>Welded screens and gates to concrete or brickwork</u> | | |
| Tenderers are referred to Architects Gate Schedules accompanying these Bills of Quantities for tender purposes. | | |
| 5 | Custom made mild steel security gate size 925 x 2082mm high comprising of 50 x 38 x 1.6mm rectangular hollow section frame, 30 x 28 x 1.6mm rectangular hollow section gate opening frame fitted with 25 x 25 x 1.6mm square hollow section intermediates welded to frame at 100mm c/c at 45 degree angle, two bullet hinges welded to frame, 6No angle lugs welded to frame, holed to and plugged with M12 chemical anchors, including double throw dead lock locking mechanism | 3 |
| Carried Forward to Summary of Section No. 3 | | |
| Section No. 3 | | |
| GRD7 - Grade R Ablutions | | |
| Bill No. 9 | | |
| Metalwork | | |
| | | R |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 10 PLASTERING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>SCREEDS</u> | | | |
| | <u>Screed</u> | | | |
| 1 | 40mm Thick on floors finished with wood trowel to a level finish | m2 | 38 | |
| | <u>Prepare screeded surfaces as described, prime with three component' primer (3m²/1 litre) and apply three component coloured epoxy screed and two coats HACCP International certified anti antimicrobial treated non-slip polyurethane resin floor sealer:</u> | | | |
| 2 | 4-6mm Thick on floors to falls and currents | m2 | 36 | |
| | <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> | | | |
| 3 | 30 x 3mm Flat section brass dividing strips between differing floor finishes | m | 3 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 10 Plastering | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 11 TILING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Fixing</u></p> | | | |
| <p>Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding</p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>WALL TILING</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 11 Tiling</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|--|---------|
| | <p><u>600 x 600 x 6mm thick first grade glazed porcelein wall tiles with tile wear rating 4 fixed to plaster (plaster elsewhere) with tile adhesive with 3mm joints continuous in both directions, jointed and flush pointed with professional high performance mould and bacteria resistant tile grout installed in strict accordance with the manufacturer's instructions on:</u></p> | |
| 1 | On walls in isolated panels, splashbacks, etc | m2 3 |
| <p><u>SUNDRIES</u></p> <p><u>"Kirk Marketing" or equal approved corner protectors, dividing strips, edge trims, covers, etc:</u></p> | | |
| 2 | 12mm Aluminium straight edge trim fixed in accordance to manufacturer's recommendations (Code:ASQE120). | m 5 |
| <p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 11 Tiling</p> | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 3</u></p> | | | |
| <p><u>BILL NO. 12 PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content</p> | | | |
| <p><u>"Polycop" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> | | | |
| <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> | | | |
| <p>All pipe diameters are nominal external</p> | | | |
| <p><u>"Polylink" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> | | | |
| <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 12 Plumbing and Drainage(Provisional)</p> | | | |
| | | | R |

Brought Forward

R

Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers

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

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

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

All pipe diameters are nominal external

Concrete pipes:

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

Vitrified clay pipes:

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

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

uPVC pipes and fittings:

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

uPVC pressure pipes and fittings:

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Carried Forward

R

Section No. 3
 GRD7 - Grade R Ablutions
 Bill No. 12
 Plumbing and Drainage(Provisional)

Brought Forward

R

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

Copper pipes:

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

Fixing of pipes

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

Chasing

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes

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

Carried Forward

R

Section No. 3
 GRD7 - Grade R Ablutions
 Bill No. 12
 Plumbing and Drainage(Provisional)

Brought Forward

R

Wire gratings

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

Septic tanks

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

Flush pans

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

Carried Forward

R

Section No. 3
 GRD7 - Grade R Ablutions
 Bill No. 12
 Plumbing and Drainage(Provisional)

| Brought Forward | | R |
|--|--|---|
| <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> | | |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable | | |
| <u>Waste unions</u> | | |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings | | |
| <u>Steel sectional water tanks</u> | | |
| Tanks shall comply with SABS CKS 114 | | |
| <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd (or equally approved).</u> | | |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc | | |
| <u>RAINWATER DISPOSAL (PROVISIONAL):</u> | | |
| <u>0.8mm thick continuous hot-dip zinc coated carbon steel or aluminium gutter with chromadek finish colour to architect specifications.</u> | | |
| 1 | 125 x 100 x 0.8mm thick gutters fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets. | 8 |
| 2 | Extra over eaves gutter for stop ends. | 2 |
| 3 | 100 x 100mm rainwater pipes to match existing fixed to walls with and including approved holderbats at 900mm centres. | 4 |
| 4 | Extra over eaves gutter for outlet for 100 x 100mm pipe. | 2 |
| 5 | Extra over rainwater pipe for swan-neck | 2 |
| 6 | Extra over rainwater pipe for bend. | 4 |
| Carried Forward | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | |

| | | Brought Forward | | R |
|----|---|------------------------|---|---|
| 7 | Extra over rainwater pipe for shoe. | No | 2 | |
| | <u>SANITARY FITTINGS</u> | | | |
| | Note: Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8) | | | |
| | <u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion:</u> | | | |
| | <u>White vitreous china or equal approved wash hand basins and pedestals:</u> | | | |
| 8 | Atlas basin and semi pedestal comprises a wall-mounted basin with a semi (or half) pedestal, size 500 x 480mm rounded with three semi-punched tap holes, integrated overflow, and chain stay hole through the centre semi-punched tap hole 2x bolted to wall and sealed with silicone sealant where basin meets wall | No | 5 | |
| | <u>White vitreous china or equal approved WC, etc:</u> | | | |
| 9 | Atlas or equal approved 366 x 275 x 395mm deep back to wall top entry floor mounted open rim pan with jazz thermoset seat including opening for wall mounting (Code: ATLPANBTW0TOPUE) | No | 7 | |
| 10 | Low level Atlas or equal approved raised paraplegic semi close couple suite (Code: PARSETCCB0RAIBE) comprising of vitreous china open rim wash down pan with purpose made thermoset solid hard double flap plastic toilet seat , cover plate and 9 litre cistern with flush pipe and side-flush lever mounted on wall adjacent to cistern fixed complete | No | 1 | |
| | Carried Forward | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <u>TRAPS, ETC</u> | | | |
| Note: All traps are to include for connectors and fitting to waste outlet at one end and to waste pipe at other end | | | |
| <u>Traps, etc</u> | | | |
| 11 | 32 x 40mm "ELF" anti-vac bottle trap combination for whb | No | 5 |
| <u>TAPS, VALVES, ETC</u> | | | |
| <u>"Cobra Watertech" or equally approved</u> | | | |
| 12 | Chrome plated nile pillar type single lever basin mixer with flow rate restricted to 6.0 litres/ min G1/2 female connection ends. | No | 4 |
| 13 | 15mm Clinix pattern elbow action raised nose pillar tap with aerator with blue indicator for cold water. | No | 1 |
| 14 | 15mm Type 382/10 CP angle regulating valve | No | 13 |
| 15 | Exposed top entry non-hold open feature master standard toilet flush valve with wall flange, integral vacuum breaker and butterfly control inlet including straight flushpipe and compression pan connector. | No | 8 |
| <u>SANITARY PLUMBING</u> | | | |
| <u>uPVC pipes</u> | | | |
| 16 | 50mm Pipes | m | 10 |
| 17 | 110mm Pipe fixed to walls. | m | 16 |
| <u>Extra over uPVC pipes for</u> | | | |
| 18 | 50mm Bend | No | 5 |
| 19 | 50mm Access bend | No | 5 |
| 20 | 110mm Pan connector | No | 8 |
| Carried Forward | | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | R |
|--|--|----|------|
| 21 | 110mm Access bent pan connector with anti-syphon horn | No | 8 |
| | <u>Testing:</u> | | |
| 22 | Testing waste pipe system | | Item |
| | <u>WATER SUPPLIES</u> | | |
| | <u>Class 0 copper pipes</u> | | |
| 23 | 15 mm Pipes | m | 54 |
| 24 | 22 mm Pipes | m | 3 |
| | <u>Extra over class 0 copper pipes for brass capillary fittings</u> | | |
| 25 | 15 mm Fittings | No | 36 |
| 26 | 22 mm Fittings | No | 5 |
| | <u>Testing</u> | | |
| 27 | Testing of water pipe system | | Item |
| Carried Forward to Summary of Section No. 3 | | | R |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 12 | | | |
| Plumbing and Drainage(Provisional) | | | |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|---|----------------|------|--------|
| | <u>BILL NO. 13 GLAZING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>Float glass</u> | | | |
| | The term "float glass" is used for monolithic annealed glass | | | |
| | <u>Laminated glass</u> | | | |
| | Laminated glass to have polyvinyl butyral (PVB) interlayer(s) | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | <u>6.28mm Obscure Safety Glass</u> | | | |
| 1 | Panels exceeding 0,1m ² and not exceeding 0,5m ² | m ² | 3 | |
| 2 | Panels exceeding 0,5m ² and not exceeding 2m ² | m ² | 3 | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> | | | |
| | <u>6mm Clear float glass silver backed mirrors with bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u> | | | |
| 3 | Mirror 600 x 800mm high with four screws | No | 5 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 13 Glazing | | | |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 14 PAINTWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>PAINTWORK, ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine, apply one universal undercoat and paint with two coats eggshell enamel paint on:</u> | | | |
| 1 | On fascia and barge boards. | m2 | 7 | |
| | <u>ON PLASTER BOARD</u> | | | |
| | <u>One coat primer and two coats interior quality acrylic PVA emulsion paint.</u> | | | |
| 2 | On ceilings and cornices | m2 | 34 | |
| | <u>ON METAL SURFACES</u> | | | |
| | Carried Forward | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 14 Paintwork | | | |

| Brought Forward | | | R |
|--|--|----|----|
| <p><u>Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:</u></p> | | | |
| 3 | Steel window frames | m2 | 11 |
| 4 | On door frames | m2 | 16 |
| <p><u>Prepare and apply one coat alkyd based zinc chromate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint on:</u></p> | | | |
| 5 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 23 |
| <p><u>ON WOOD</u></p> | | | |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats eggshell enamel or other approved on:</u></p> | | | |
| 6 | On doors | m2 | 36 |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats Polyurethane Alkyd coating or other approved on:</u></p> | | | |
| 7 | General surfaces of timbers | m2 | 26 |
| <p>Carried Forward to Summary of Section No. 3</p> | | | R |
| <p>Section No. 3 GRD7 - Grade R Ablutions Bill No. 14 Paintwork</p> | | | |

| Item No | <u>SECTION NO. 3</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 15 APRONS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN APRONS</u> | | | |
| | <u>EXCAVATION</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 1 | Reduce levels under surface beds | m3 | 4 | |
| | Carried Forward | | | R |
| | Section No. 3 GRD7 - Grade R Ablutions Bill No. 15 Concrete Aprons | | | |

| Brought Forward | | R |
|---|--|-------|
| <u>Extra over all excavations for carting away</u> | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 4 |
| <u>Keeping excavations free from water</u> | | |
| <u>FILLING, ETC</u> | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | |
| <u>Surface bed preparation</u> | | |
| 3 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 27 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | |
| 4 | Under floors, etc | m3 15 |
| <u>Compaction of surfaces</u> | | |
| 5 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 27 |
| <u>PROTECTION AGAINST TERMITES</u> | | |
| <u>Soil insecticide</u> | | |
| 6 | Under floors including any preparation, levelling, etc. | m2 27 |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| Carried Forward | | R |
| Section No. 3 GRD7 - Grade R Ablutions Bill No. 15 Concrete Aprons | | |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>25MPa/19mm concrete</u> | | |
| 7 | Surface beds cast in panels on waterproofing | m3 | 4 |
| | <u>CONCRETE SUNDRIES</u> | | |
| | <u>Finishing top surfaces of concrete smooth with a wood float</u> | | |
| 8 | Surface beds, slabs, etc to falls | m2 | 27 |
| | <u>MOVEMENT JOINTS</u> | | |
| | <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| 9 | 10mm Joints not exceeding 300mm high | m | 27 |
| | <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> | | |
| | <u>Smooth formwork to sides</u> | | |
| 10 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 27 |
| | <u>Fabric reinforcement</u> | | |
| 11 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 27 |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | |
| 12 | Under surface beds | m2 | 27 |
| Carried Forward to Summary of Section No. 3 | | | R |
| Section No. 3 | | | |
| GRD7 - Grade R Ablutions | | | |
| Bill No. 15 | | | |
| Concrete Aprons | | | |

SECTION SUMMARY - GRD7 - Grade R Ablutions

| Bill No | | Page No | Amount |
|---|---------------------------------------|---------|--------|
| 1 | Earthworks | 75 | |
| 2 | Concrete,Formwork, Reinforcement | 78 | |
| 3 | Masonry | 81 | |
| 4 | Waterproofing | 82 | |
| 5 | Roof Covering, etc | 84 | |
| 6 | Carpentry and Joinery | 88 | |
| 7 | Ceilings, Partitions, Access Flooring | 90 | |
| 8 | Ironmongery | 94 | |
| 9 | Metalwork | 96 | |
| 10 | Plastering | 97 | |
| 11 | Tiling | 99 | |
| 12 | Plumbing and Drainage(Provisional) | 107 | |
| 13 | Glazing | 108 | |
| 14 | Paintwork | 110 | |
| 15 | Concrete Aprons | 113 | |
| Carried to Final Summary | | | |
| Section No. 3 GRD7 - Grade R Ablutions | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 1 EARTHWORKS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Nature of material to be excavated</u></p> | | | |
| <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> | | | |
| <p><u>Classification of excavated material</u></p> | | | |
| <p>Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.</p> | | | |
| <p>Soft rock" shall mean hard material the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 1 Earthworks</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|---|----|----|
| <u>Carting away of excavated material</u> | | | |
| 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 | | | |
| <u>Dewatering of excavations</u> | | | |
| The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise | | | |
| Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water | | | |
| <u>Density testing on filling</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>EXCAVATION, ETC</u> | | | |
| <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Trenches. | m3 | 16 |
| 2 | Reduce levels | m3 | 17 |
| <u>Extra over trench and hole excavations in earth for excavation in</u> | | | |
| 3 | Soft rock. | m3 | 2 |
| 4 | Hard rock. | m3 | 1 |
| <u>Extra over all excavations for carting away:</u> | | | |
| 5 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 9 |
| Carried Forward | | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 1 Earthworks | | | |

| Brought Forward | | | R |
|---|---|----|------|
| <u>Risk of collapse of excavations:</u> | | | |
| 6 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 45 |
| <u>Keeping excavations free of water:</u> | | | |
| 7 | Keeping excavations free from mud and all water including subterranean sources. | | Item |
| <u>EARTH FILLING, ETC.</u> | | | |
| <u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u> | | | |
| 8 | Backfilling to trenches, holes, etc. | m3 | 7 |
| <u>Filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| <u>Filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| 9 | Under floors, steps, pavings, etc. | m3 | 10 |
| <u>Compaction of surfaces:</u> | | | |
| 10 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 26 |
| <u>Prescribed density tests on filling:</u> | | | |
| 11 | Allow for compaction tests by an approved laboratory to determine density of filling material. | No | 1 |
| <u>SOIL POISONING</u> | | | |
| <u>Soil insecticide</u> | | | |
| 12 | Under floors including any preparation, levelling, etc. | m2 | 26 |
| 13 | To bottoms and sides of trenches etc | m2 | 63 |
| Carried Forward to Summary of Section No. 4 | | | R |
| Section No. 4 | | | |
| FD4-Girls Ablutions | | | |
| Bill No. 1 | | | |
| Earthworks | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 2 CONCRETE, FORMWORK & REINFORCEMENT</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Cost of tests:</u></p> | | | |
| <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> | | | |
| <p><u>Formwork:</u></p> | | | |
| <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 2 Concrete,Formwork, Reinforcement</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|---|----|
| <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> | | |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| <u>25MPa/19mm concrete</u> | | |
| 1 | Surface beds cast in panels on waterproofing m3 | 3 |
| 2 | Strip footing (Provisional). m3 | 5 |
| <u>CONCRETE TESTING</u> | | |
| <u>Concrete tests</u> | | |
| 3 | Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional). Sets | 2 |
| <u>SUNDRIES</u> | | |
| <u>Finishing top surfaces of concrete smooth with a power float</u> | | |
| 4 | Surface beds, slabs, etc m2 | 26 |
| <u>MOVEMENT JOINTS</u> | | |
| <u>Expansion joints with 10mm "Masonite" bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| Carried Forward | | R |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 2 Concrete,Formwork, Reinforcement</p> | | |

| Brought Forward | | | | R |
|--|--|----|------|---|
| | <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | | |
| 5 | 10mm Joints not exceeding 300mm high | m | 29 | |
| | <u>Saw cut joints and seal with flexible polyurethane sealant (sikaflex 11FC or equally approved) directly after sawing</u> | | | |
| 6 | 6 x 30mm Saw cut joints in two operations on top of concrete | m | 4 | |
| | <u>STEEL REINFORCEMENT (PROVISIONAL)</u> | | | |
| | <u>Mild steel reinforcement to structural concrete work</u> | | | |
| 7 | Steel reinforcing in various Diameter bars | t | 0.42 | |
| | <u>Mesh reinforcement</u> | | | |
| 8 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 26 | |
| Carried Forward to Summary of Section No. 4 | | | | |
| Section No. 4 | | | | |
| FD4-Girls Ablutions | | | | |
| Bill No. 2 | | | | |
| Concrete,Formwork, Reinforcement | | | | |
| | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 3 MASONRY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Sizes in descriptions</u></p> | | | |
| <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> | | | |
| <p><u>Hollow walls etc</u></p> | | | |
| <p>Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> | | | |
| <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> | | | |
| <p><u>Cement mortar</u></p> | | | |
| <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 3 Masonry</p> | | | |
| | | | R |

| Brought Forward | | | R |
|--|---|----|-----|
| <u>Face bricks</u> | | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | | |
| <u>Pointing</u> | | | |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | |
| <u>Brickwork Bond</u> | | | |
| All brickwork shall be laid in stretcher bond unless otherwise stated | | | |
| <u>Wire ties</u> | | | |
| All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties | | | |
| <u>Samples, etc</u> | | | |
| Rates for brickwork, faced brickwork, etc shall include for all required samples | | | |
| <u>FOUNDATIONS (PROVISIONAL)</u> | | | |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u> | | | |
| 1 | One brick walls | m2 | 15 |
| <u>BRICKWORK SUNDRIES</u> | | | |
| <u>Ties and Cramps</u> | | | |
| 2 | 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. | No | 52 |
| <u>Brick reinforcement</u> | | | |
| 3 | 75 mm wide reinforcement built in horizontally | m | 131 |
| 4 | 150 mm wide reinforcement built in horizontally | m | 388 |
| 5 | Ditto, but in foundations (Provisional). | m | 101 |
| Carried Forward | | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 3 Masonry | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <u>Concrete prestressed fabricated lintels</u> | | | |
| 6 | 110 x 75mm Lintels | m | 32 |
| <u>"Terracotta" Air bricks etc</u> | | | |
| 7 | Set of two 230 x 160mm high terra cotta clay vermin proof air bricks including making good reveals and gauze | No | 10 |
| <u>FACE BRICKWORK</u> | | | |
| <u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u> | | | |
| 8 | Half brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 29 |
| 9 | One brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 76 |
| <u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all exposed faces:</u> | | | |
| 10 | Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 110mm soffit | m | 8 |
| 11 | 220mm Wide sill set sloping and slightly projecting pointed on top and front edge | m | 6 |
| Carried Forward to Summary of Section No. 4 | | | |
| Section No. 4 | | | |
| FD4-Girls Ablutions | | | |
| Bill No. 3 | | | |
| Masonry | | | |
| | | | R |

| Item No | <u>SECTION NO. 4</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 4 WATERPROOFING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</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>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | | |
| 1 | Under surface beds | m2 | 26 | |
| | <u>One layer of 375 micron black embossed polyplefin damp proof course complying with SANS 952 type B</u> | | | |
| 2 | On walls, under cills, etc. | m2 | 7 | |
| | Carried Forward to Summary of Section No. 4 | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 4 Waterproofing | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 5 ROOF COVERINGS, ETC</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Fixing:</u></p> | | | |
| <p>Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.</p> | | | |
| <p><u>Guarantee:</u></p> | | | |
| <p>The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.</p> | | | |
| <p><u>Pricing:</u></p> | | | |
| <p>Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).</p> | | | |
| <p><u>ROOF SHEETING AND ACCESSORIES</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 5 Roof Covering, etc</p> | | | |
| | | | R |

| Brought Forward | | | R |
|---|---|----|----|
| | <p><u>0.6mm thick ISQ550 "Klip-lock" Z200 galvanised steel roof sheeting coated with Chromadeck (Colour: TBA) on one side , fixed to timber purlins using KL700 plus clips and heavy duty industrial gauge accessories fixed complete in strict accordance with the manufacturer's recommendations.</u></p> | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 34 |
| 2 | Barge capping 430mm girth | m | 7 |
| <p><u>ROOF AND WALL INSULATION</u></p> <p><u>4mm laminated radiant thermal barrier sheet, constructed of a layer of low density polyethylene air cells, laminated between a white polyethylene sheet on underside, and a fibre reinforced aluminium foil top surface. Insulation to meet fire performance requirements of SANS 428:2007.</u></p> | | | |
| 3 | Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 34 |
| <p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 FD4-Girls Ablutions Bill No. 5 Roof Covering, etc</p> | | | |
| | | | R |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 6 CARPENTRY AND JOINERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Roof trusses</u></p> | | | |
| <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> | | | |
| <p><u>Joinery</u></p> | | | |
| <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> | | | |
| <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> | | | |
| <p><u>Decorative laminate finish</u></p> | | | |
| <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |
| | | | R |

Brought Forward

R

Fixing

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

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

Where items are described as "bolted" the bolts have been measured elsewhere

NOTE:For pricing of the structural roof trusses, tenderers are referred to the drawings included at the end of these Bills of Quantities

GENERAL NOTES TO TENDERERS

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Carried Forward

R

Section No. 4
 FD4-Girls Ablutions
 Bill No. 6
 Carpentry and Joinery

| Brought Forward | | | R |
|--|--|----|----|
| <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> | | | |
| <u>ROOFS ETC</u> | | | |
| <u>Sawn softwood:</u> | | | |
| 1 | 38 x 114mm Wall plate. | m | 7 |
| 2 | 38 x 114mm Rafters. | m | 21 |
| 3 | 50 x 76mm Purlins | m | 57 |
| <u>Sundries:</u> | | | |
| 4 | Two coats creosote on sawn softwood timber | m2 | 20 |
| <u>EAVES, VERGES, ETC</u> | | | |
| <u>Fibre Cement:</u> | | | |
| 5 | 225 x 12mm Pressed fibre cement fascia boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 15 |
| 6 | 200 x 80mm Pressed fibre cement barge boards or other approved twice drilled, including galvanised steel H-profile jointing strips, screws, holes etc. All to architects approval | m | 9 |
| Carried Forward | | | R |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 6 Carpentry and Joinery</p> | | | |

Brought Forward

R

DOORS AND PANELS

Tenderers are referred to Architect's Door & Window Schedules accompanying these Bills of Quantities for tender purposes.

Wrought meranti:

7 44mm thick framed, ledged and braced external flush door size 915 x 2032mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round (T01)

No

3

8 44mm thick framed, ledged and braced cubicle flush door size 813 x 1882mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round with door raised by 150mm from bottom(T02)

No

4

Carried Forward to Summary of Section No. 4

Section No. 4
 FD4-Girls Ablutions
 Bill No. 6
 Carpentry and Joinery

R

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> | | | |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> | | | |
| <p><u>Proprietary suspended ceilings</u></p> | | | |
| <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> | | | |
| <p><u>NAILED UP CEILINGS</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | |
| | | | R |

| Brought Forward | | | | R |
|--|--|----|----|---|
| <p><u>9.5mm "Rhino" gypsum plasterboard ceilings with H-type pressed steel jointing laid in a staggered pattern</u></p> | | | | |
| 1 | Ceilings including 38 x 50mm sawn softwood branderling at not exceeding 400mm centres in one direction | m2 | 28 | |
| 2 | 75mm Coved gypsum ceiling. | m | 20 | |
| | | | | |
| <p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 FD4-Girls Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 8 IRONMONGERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Finishes to ironmongery</u></p> | | | |
| <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> | | | |
| <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> | | | |
| <p>Carried Forward</p> | | | R |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 8 Ironmongery</p> | | | |

| Brought Forward | | | R |
|---|--|------|-----|
| <u>Fixing</u> | | | |
| Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories | | | |
| Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer | | | |
| <u>Note: Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u> | | | |
| <u>LOCKS</u> | | | |
| The following locks are to be suitable for master key operation | | | |
| <u>"Union" or other approved</u> | | | |
| 1 | D036S-SS Cylinder sash lock, case dimensions (mm) 116.5H x 78D, forend dimension(mm) 168H x 22W, backset 57mm with 61mm centres. | No | 4 |
| 2 | DBC006601 66mm Euro-profile bathroom/privacy cylinder | No | 4 |
| 3 | DSC104301 MK 43mm five pin Euro-profile single cylinder, master keyed | No | 2 |
| 4 | D037D SS Cylinder deadlock, case dimensions(mm) 116.5H x 78D. Forend dimensions(mm) 168H x 22W (Stainless Steel) | No | 2 |
| 5 | DMWC-SS-008 Bathroom deadlock, case dimensions(mm) 38H x 76D. Forend dimensions(mm) 78H x 22.5W (Stainless Steel) | No | 1 |
| 6 | DCE-002 SS Round cylinder escutcheon (Stainless Steel) | Sets | 2.0 |
| 7 | DWC-006 Disabled WC indicator (Red & White) and turnknob for physically impaired (Stainless Steel) | Sets | 1.0 |
| <u>HANDLES</u> | | | |
| Carried Forward | | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 8 Ironmongery | | | |

| Brought Forward | | | R |
|---|---|------|-----|
| <u>"Union" or equally approved:</u> | | | |
| 8 | CB30 CylS.C Lever handle on plate with cylinder cut out | Sets | 4.0 |
| 9 | DPH301C BTB 149x19mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 4 |
| 10 | DPH213 BTB 38x32mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 2 |
| <u>PUSH PLATES AND KICKING PLATES</u> | | | |
| <u>"Solid"</u> | | | |
| 11 | 144 x 300 x 1.2mm Thick stainless steel plate "Grade 430" drilled and countersunk, twice bent and extending 50mm on both faces of door (as indicated on schedule) | No | 3 |
| 12 | DKP-304-SF 200 x 915 x 1.2mm Thick stainless steel kick plate "Grade 304" to have 10 countersunk holes for screw fixing (Special Order) | No | 2 |
| <u>DOOR CLOSERS</u> | | | |
| <u>"Solid"</u> | | | |
| 13 | TS73V-SL EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing (Silver) (Regular Arm Bracket Included) | Sets | 2.0 |
| 14 | TS73V PA DC-PAB-SL EN 2-4 parallel Arm DELAYED ACTION Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Silver) (Parallel Arm Bracket Included) | Sets | 1.0 |
| <u>LETTERS, NAMEPLATES, ETC</u> | | | |
| <u>Stainless steel</u> | | | |
| 15 | DSS-131 F 150 x 150mm FEMALE sign | No | 1 |
| 16 | DSS-133 P 150 x 150mm DISABLED PERSONS sign | No | 1 |
| 17 | DSS-140 E 150 x 150mm EMERGENCY sign | No | 1 |
| <u>BATHROOM FITTINGS</u> | | | |
| Carried Forward | | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 8 Ironmongery | | | |

| Brought Forward | | | R |
|--|--|----|---|
| <u>Stainless steel</u> | | | |
| 18 | Wall mounted lockable Toilet Paper Dispenser-3 Roll-TR3 | No | 5 |
| 19 | 20Litre rust resistant, S/S Satin finish surface mounted sanitary bin overall size 355 x 460 x 186mm as per architect's specification (Code:N-SBIN-20-SS) | No | 5 |
| 20 | Golden touch lockable wall mounted soap dispenser with 1.2litre capacity | No | 3 |
| 21 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel wall mounted paper towel dispenser (Code:359700), size 300 x 134 x 304mm deep, capacity of 300-400 towels, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws. | No | 3 |
| 22 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel 18 Litre wall mounted waste bin | No | 3 |
| <u>SUNDRIES</u> | | | |
| <u>Solid</u> | | | |
| 23 | DDS-SS-017 Floor Mounted Door Stop (Stainless Steel) | No | 3 |
| 24 | DHC-SS-031B dormakaba hat and coat hook with rubber buffer | No | 6 |
| Carried Forward to Summary of Section No. 4 | | | R |
| Section No. 4 | | | |
| FD4-Girls Ablutions | | | |
| Bill No. 8 | | | |
| Ironmongery | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 9 METALWORK</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Descriptions of bolts shall be deemed to include nuts and washers</p> | | | |
| <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete</p> | | | |
| <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> | | | |
| <p><u>BURGLAR BARS, ETC.</u></p> | | | |
| <p><u>40 x 12mm thick steel framing with 10mm diameter pre-drilled holes to house coach screws with framing fitted with horizontal 12mm thick steel solid round/rod welded to frame at 98mm centres. Including treating bars for rust and painting with high gloss polyurethane alkyd to architect specifications.</u></p> | | | |
| <p><u>PRESSED STEEL DOOR FRAMES</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 9 Metalwork</p> | | | |
| | | | R |

| Brought Forward | | R |
|---|--|------|
| <u>1,6mm Single rebated frames suitable for one brick walls</u> | | |
| 1 | Frame for single door 915 x 2032mm high | No 3 |
| <u>1,2mm Single rebated frames suitable for half brick walls</u> | | |
| 2 | Frame for single door 813 x 2032mm high | No 4 |
| <u>PRESSED STEEL WINDOWS, ETC.</u> | | |
| <u>School type windows</u> | | |
| 3 | Standard window type NE1, size 533 x 654mm high including pre-installed burglar bars | No 5 |
| 4 | Standard window type NE7, size 1022 x 654mm high including pre-installed burglar bars | No 3 |
| <u>STEEL GATES, SCREENS, ETC</u> | | |
| <u>Welded screens and gates to concrete or brickwork</u> | | |
| Tenderers are referred to Architects Gate Schedules accompanying these Bills of Quantities for tender purposes. | | |
| 5 | Custom made mild steel security gate size 925 x 2082mm high comprising of 50 x 38 x 1.6mm rectangular hollow section frame, 30 x 28 x 1.6mm rectangular hollow section gate opening frame fitted with 25 x 25 x 1.6mm square hollow section intermediates welded to frame at 100mm c/c at 45 degree angle, two bullet hinges welded to frame, 6No angle lugs welded to frame, holed to and plugged with M12 chemical anchors, including double throw dead lock locking mechanism | No 3 |
| Carried Forward to Summary of Section No. 4 | | |
| Section No. 4 FD4-Girls Ablutions Bill No. 9 Metalwork | | R |

| Item No | <u>SECTION NO. 4</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 10 PLASTERING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>SCREEDS</u> | | | |
| | <u>Screed</u> | | | |
| 1 | 40mm Thick on floors finished with wood trowel to a level finish | m2 | 27 | |
| | <u>Prepare screeded surfaces as described, prime with three component' primer (3m²/1 litre) and apply three component coloured epoxy screed and two coats HACCP International certified anti antimicrobial treated non-slip polyurethane resin floor sealer:</u> | | | |
| 2 | 4-6mm Thick on floors to falls and currents | m2 | 26 | |
| | <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> | | | |
| 3 | 30 x 3mm Flat section brass dividing strips between differing floor finishes | m | 3 | |
| | Carried Forward to Summary of Section No. 4 | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 10 Plastering | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 11 TILING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Fixing</u></p> | | | |
| <p>Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding</p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>WALL TILING</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 11 Tiling</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|---|---|
| <p><u>600 x 600 x 6mm thick first grade glazed porcelein wall tiles with tile wear rating 4 fixed to plaster (plaster elsewhere) with tile adhesive with 3mm joints continuous in both directions, jointed and flush pointed with professional high performance mould and bacteria resistant tile grout installed in strict accordance with the manufacturer's instructions on:</u></p> | | |
| 1 | <p>On walls in isolated panels, splashbacks, etc</p> <p><u>SUNDRIES</u></p> <p><u>"Kirk Marketing" or equal approved corner protectors, dividing strips, edge trims, covers, etc:</u></p> | 2 |
| 2 | <p>12mm Aluminium straight edge trim fixed in accordance to manufacturer's recommendations (Code:ASQE120).</p> | 4 |
| <p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 FD4-Girls Ablutions Bill No. 11 Tiling</p> | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 4</u></p> | | | |
| <p><u>BILL NO. 12 PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content</p> | | | |
| <p><u>"Polycop" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> | | | |
| <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> | | | |
| <p>All pipe diameters are nominal external</p> | | | |
| <p><u>"Polylink" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> | | | |
| <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 12 Plumbing and Drainage(Provisional)</p> | | | |
| | | | R |

| | |
|---|----------|
| <p style="text-align: center;">Brought Forward</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> | <p>R</p> |
| <p style="text-align: center;">Carried Forward</p> <p>Section No. 4 FD4-Girls Ablutions Bill No. 12 Plumbing and Drainage(Provisional)</p> | <p>R</p> |

Brought Forward

R

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

Copper pipes:

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

Fixing of pipes

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

Chasing

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes

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

Carried Forward

R

Section No. 4
 FD4-Girls Ablutions
 Bill No. 12
 Plumbing and Drainage(Provisional)

Brought Forward

R

Wire gratings

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

Septic tanks

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

Flush pans

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

Carried Forward

R

Section No. 4
 FD4-Girls Ablutions
 Bill No. 12
 Plumbing and Drainage(Provisional)

| Brought Forward | | R |
|--|--|---|
| <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> | | |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable | | |
| <u>Waste unions</u> | | |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings | | |
| <u>Steel sectional water tanks</u> | | |
| Tanks shall comply with SABS CKS 114 | | |
| <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd (or equally approved).</u> | | |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc | | |
| <u>RAINWATER DISPOSAL (PROVISIONAL):</u> | | |
| <u>0.8mm thick continuous hot-dip zinc coated carbon steel or aluminium gutter with chromadek finish colour to architect specifications.</u> | | |
| 1 | 125 x 100 x 0.8mm thick gutters fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets. | 7 |
| 2 | Extra over eaves gutter for stop ends. | 2 |
| 3 | 100 x 100mm rainwater pipes to match existing fixed to walls with and including approved holderbats at 900mm centres. | 4 |
| 4 | Extra over eaves gutter for outlet for 100 x 100mm pipe. | 2 |
| 5 | Extra over rainwater pipe for swan-neck | 2 |
| 6 | Extra over rainwater pipe for bend. | 4 |
| Carried Forward | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | |

| | | Brought Forward | | R |
|----|---|------------------------|---|---|
| 7 | Extra over rainwater pipe for shoe. | No | 2 | |
| | <u>SANITARY FITTINGS</u> | | | |
| | Note: Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8) | | | |
| | <u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion:</u> | | | |
| | <u>White vitreous china or equal approved wash hand basins and pedestals:</u> | | | |
| 8 | Atlas basin and semi pedestal comprises a wall-mounted basin with a semi (or half) pedestal, size 500 x 480mm rounded with three semi-punched tap holes, integrated overflow, and chain stay hole through the centre semi-punched tap hole 2x bolted to wall and sealed with silicone sealant where basin meets wall | No | 3 | |
| | <u>White vitreous china or equal approved WC, etc:</u> | | | |
| 9 | Atlas or equal approved 366 x 275 x 395mm deep back to wall top entry floor mounted open rim pan with jazz thermoset seat including opening for wall mounting (Code: ATLPANBTW0TOPUE) | No | 4 | |
| 10 | Low level Atlas or equal approved raised paraplegic semi close couple suite (Code: PARSETCCB0RAIBE) comprising of vitreous china open rim wash down pan with purpose made thermoset solid hard double flap plastic toilet seat , cover plate and 9 litre cistern with flush pipe and side-flush lever mounted on wall adjacent to cistern fixed complete | No | 1 | |
| | Carried Forward | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <u>TRAPS, ETC</u> | | | |
| Note: All traps are to include for connectors and fitting to waste outlet at one end and to waste pipe at other end | | | |
| <u>Traps, etc</u> | | | |
| 11 | 32 x 40mm "ELF" anti-vac bottle trap combination for whb | No | 3 |
| <u>TAPS, VALVES, ETC</u> | | | |
| <u>"Cobra Watertech" or equally approved</u> | | | |
| 12 | Chrome plated nile pillar type single lever basin mixer with flow rate restricted to 6.0 litres/ min G1/2 female connection ends. | No | 2 |
| 13 | 15mm Clinix pattern elbow action raised nose pillar tap with aerator with blue indicator for cold water. | No | 1 |
| 14 | 15mm Type 382/10 CP angle regulating valve | No | 8 |
| 15 | Exposed top entry non-hold open feature master standard toilet flush valve with wall flange, integral vacuum breaker and butterfly control inlet including straight flushpipe and compression pan connector. | No | 5 |
| <u>SANITARY PLUMBING</u> | | | |
| <u>uPVC pipes</u> | | | |
| 16 | 50mm Pipes | m | 6 |
| 17 | 110mm Pipe fixed to walls. | m | 10 |
| <u>Extra over uPVC pipes for</u> | | | |
| 18 | 50mm Bend | No | 3 |
| 19 | 50mm Access bend | No | 3 |
| 20 | 110mm Pan connector | No | 5 |
| Carried Forward | | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 12 Plumbing and Drainage(Provisional) | | | |

| Brought Forward | | | R |
|--|--|----|------|
| 21 | 110mm Access bent pan connector with anti-syphon horn | No | 5 |
| | <u>Testing:</u> | | |
| 22 | Testing waste pipe system | | Item |
| | <u>WATER SUPPLIES</u> | | |
| | <u>Class 0 copper pipes</u> | | |
| 23 | 15 mm Pipes | m | 33 |
| 24 | 22 mm Pipes | m | 2 |
| | <u>Extra over class 0 copper pipes for brass capillary fittings</u> | | |
| 25 | 15 mm Fittings | No | 22 |
| 26 | 22 mm Fittings | No | 3 |
| | <u>Testing</u> | | |
| 27 | Testing of water pipe system | | Item |
| Carried Forward to Summary of Section No. 4 | | | R |
| Section No. 4 | | | |
| FD4-Girls Ablutions | | | |
| Bill No. 12 | | | |
| Plumbing and Drainage(Provisional) | | | |

| Item No | <u>SECTION NO. 4</u> | Quantity | Rate | Amount |
|---------|---|----------------|------|--------|
| | <u>BILL NO. 13 GLAZING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>Float glass</u> | | | |
| | The term "float glass" is used for monolithic annealed glass | | | |
| | <u>Laminated glass</u> | | | |
| | Laminated glass to have polyvinyl butyral (PVB) interlayer(s) | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | <u>6.28mm Obscure Safety Glass</u> | | | |
| 1 | Panels exceeding 0,1m ² and not exceeding 0,5m ² | m ² | 2 | |
| 2 | Panels exceeding 0,5m ² and not exceeding 2m ² | m ² | 2 | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> | | | |
| | <u>6mm Clear float glass silver backed mirrors with bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u> | | | |
| 3 | Mirror 600 x 800mm high with four screws | No | 3 | |
| | Carried Forward to Summary of Section No. 4 | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 13 Glazing | | | |

| Item No | <u>SECTION NO. 4</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 14 PAINTWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>PAINTWORK, ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine, apply one universal undercoat and paint with two coats eggshell enamel paint on:</u> | | | |
| 1 | On fascia and barge boards. | m2 | 6 | |
| | <u>ON PLASTER BOARD</u> | | | |
| | <u>One coat primer and two coats interior quality acrylic PVA emulsion paint.</u> | | | |
| 2 | On ceilings and cornices | m2 | 28 | |
| | <u>ON METAL SURFACES</u> | | | |
| | Carried Forward | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 14 Paintwork | | | |

| Brought Forward | | | R |
|--|--|----|----|
| <p><u>Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:</u></p> | | | |
| 3 | Steel window frames | m2 | 7 |
| 4 | On door frames | m2 | 12 |
| <p><u>Prepare and apply one coat alkyd based zinc chromate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint on:</u></p> | | | |
| 5 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 19 |
| <p><u>ON WOOD</u></p> | | | |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats eggshell enamel or other approved on:</u></p> | | | |
| 6 | On doors | m2 | 25 |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats Polyurethane Alkyd coating or other approved on:</u></p> | | | |
| 7 | General surfaces of timbers | m2 | 20 |
| <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u></p> | | | |
| <p><u>ON FLOATED PLASTER</u></p> | | | |
| Carried Forward | | | R |
| <p>Section No. 4 FD4-Girls Ablutions Bill No. 14 Paintwork</p> | | | |

Brought Forward

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat professional gypsum and two coats "Plascon Double Velvet "paint on:

ON METAL

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat plaster primer UC56 and two coats enamel paint on:

Carried Forward to Summary of Section No. 4

Section No. 4
 FD4-Girls Ablutions
 Bill No. 14
 Paintwork

R

R

| Item No | <u>SECTION NO. 4</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 15 APRONS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN APRONS</u> | | | |
| | <u>EXCAVATION</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 1 | Reduce levels under surface beds | m3 | 3 | |
| | Carried Forward | | | R |
| | Section No. 4 FD4-Girls Ablutions Bill No. 15 Concrete Aprons | | | |

| Brought Forward | | R |
|---|--|-------|
| <u>Extra over all excavations for carting away</u> | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 3 |
| <u>Keeping excavations free from water</u> | | |
| <u>FILLING, ETC</u> | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | |
| <u>Surface bed preparation</u> | | |
| 3 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 21 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | |
| 4 | Under floors, etc | m3 12 |
| <u>Compaction of surfaces</u> | | |
| 5 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 21 |
| <u>PROTECTION AGAINST TERMITES</u> | | |
| <u>Soil insecticide</u> | | |
| 6 | Under floors including any preparation, levelling, etc. | m2 21 |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| Carried Forward | | R |
| Section No. 4 FD4-Girls Ablutions Bill No. 15 Concrete Aprons | | |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>25MPa/19mm concrete</u> | | |
| 7 | Surface beds cast in panels on waterproofing | m3 | 3 |
| | <u>CONCRETE SUNDRIES</u> | | |
| | <u>Finishing top surfaces of concrete smooth with a wood float</u> | | |
| 8 | Surface beds, slabs, etc to falls | m2 | 21 |
| | <u>MOVEMENT JOINTS</u> | | |
| | <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| 9 | 10mm Joints not exceeding 300mm high | m | 21 |
| | <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> | | |
| | <u>Smooth formwork to sides</u> | | |
| 10 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 21 |
| | <u>Fabric reinforcement</u> | | |
| 11 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 21 |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | |
| 12 | Under surface beds | m2 | 21 |
| Carried Forward to Summary of Section No. 4 | | | R |
| Section No. 4 | | | |
| FD4-Girls Ablutions | | | |
| Bill No. 15 | | | |
| Concrete Aprons | | | |

SECTION SUMMARY - FD4-Girls Ablutions

| Bill No | | Page No | Amount |
|--------------------------------------|---------------------------------------|---------|--------|
| 1 | Earthworks | 117 | |
| 2 | Concrete,Formwork, Reinforcement | 120 | |
| 3 | Masonry | 123 | |
| 4 | Waterproofing | 124 | |
| 5 | Roof Covering, etc | 126 | |
| 6 | Carpentry and Joinery | 130 | |
| 7 | Ceilings, Partitions, Access Flooring | 132 | |
| 8 | Ironmongery | 136 | |
| 9 | Metalwork | 138 | |
| 10 | Plastering | 139 | |
| 11 | Tiling | 141 | |
| 12 | Plumbing and Drainage(Provisional) | 149 | |
| 13 | Glazing | 150 | |
| 14 | Paintwork | 153 | |
| 15 | Concrete Aprons | 156 | |
| Carried to Final Summary | | | |
| Section No. 4 FD4-Girls Ablutions | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 1 ALTERATIONS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Descriptions and Preambles</u></p> | | | |
| <p>The full descriptions of the items and all preambles in the previous and following trades, shall, unless otherwise stated, also be applicable to the relevant items in this trade.</p> | | | |
| <p><u>View site</u></p> | | | |
| <p>Before submitting this tender, the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> | | | |
| <p><u>Explosives</u></p> | | | |
| <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p> | | | |
| <p><u>General</u></p> | | | |
| <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectively stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 1 Alterations</p> | | | |
| | | | R |

Brought Forward

R

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, doorstops, etc and making good floor and wall finishes to match existing.

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.

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

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

Asbestos removal

Removal of asbestos materials shall be executed in compliance with the regulations set out in the Occupational Health and Safety Act

Removal of asbestos materials shall be executed by a certified asbestos removal contractor

The disposal of the removed asbestos to be disposed at a registered approved asbestos dumpsite with certificate of disposal.

Old materials to be carted away

Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 1
 Alterations

Brought Forward

R

Old materials not to be re-used

None of the old materials are to be used for new work except where specifically described to be set aside for re-use.

Handing over of materials

Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the contractor, until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the contractor.

Abbreviations

For the purpose of this bill certain abbreviations have been made use of, the full meanings of which are as follows:

"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for the plaster or other finishings

"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 1
 Alterations

Brought Forward

"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

R

Carried Forward

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 1
 Alterations

R

| Brought Forward | | | R |
|--|--|----|------|
| <u>GENERAL</u> | | | |
| <u>Protection from damage</u> | | | |
| 1 | All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense | | Item |
| <u>Temporary barriers, screens, etc including removal</u> | | | |
| 2 | Any temporary tarpaulins, dust and weatherproof screens and barriers that may be necessary for protection of the Works | | Item |
| <u>REMOVAL OF EXISTING WORK</u> | | | |
| <u>Breaking down and removing brickwork etc</u> | | | |
| 3 | One brick wall | m2 | 0.3 |
| <u>Taking out and removing doors, windows, etc from brickwork to remain</u> | | | |
| 4 | Timber door 813 x 2032m high overall | No | 5 |
| 5 | Timber door 915 x 2032m high overall | No | 1 |
| <u>Taking out and removing ironmongery</u> | | | |
| 6 | Mortice lockset from timber door | No | 6 |
| 7 | Door closer from timber door and frame | No | 1 |
| <u>Taking out/off and removing sundry metalwork</u> | | | |
| 8 | Steel gate 2239 x 2685m high overall | No | 1 |
| 9 | Steel gate 915 x 2125m high overall | No | 1 |
| <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u> | | | |
| 10 | Gypsum plasterboard ceilings, including timber brandering, cornices, etc | m2 | 41 |
| Carried Forward | | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 1 Alterations | | | |

| Brought Forward | | | R |
|---|---|----|----|
| 11 | Fascia boards | m | 22 |
| 12 | Barge boards | m | 25 |
| 13 | Steel gutters | m | 22 |
| 14 | Down pipes | m | 9 |
| <u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u> | | | |
| 15 | Vitreous china WC pan with cistern and flush pipe | No | 9 |
| 16 | Stainless steel slab urinal approximately 4100 x 800mm high, including breaking up and removing 2 x 170mm wide concrete urinal steps | No | 1 |
| <u>MAKING GOOD OF FINISHES ETC</u> | | | |
| <u>Making good roof covering</u> | | | |
| 17 | Inspect the entire roof covering for leaks, rust, etc and make good/repair/replace where damaged as directed by the Principal Agent (PC R 100/m2) measured flat on plan. | m2 | 47 |
| <u>Making good existing steel windows</u> | | | |
| 18 | Service 533 x 654mm windows ,including ensuring smooth opening, closing and replacement of broken glass, peg stays, sliding arms, etc. as necessary to match existing. | No | 8 |
| 19 | Service 1020 x 655mm windows ,including ensuring smooth opening, closing and replacement of broken glass, peg stays, sliding arms, etc. as necessary to match existing. | No | 4 |
| <u>Making good existing steel door frames</u> | | | |
| 20 | Service 813 x 2032mm door frame suitable for half brick wall including ensuring hinges, striker plates are repaired and/or replaced where damaged, etc. as necessary to match existing. | No | 5 |
| Carried Forward | | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 1 Alterations | | | |

| Brought Forward | | | R |
|--|--|----|-----|
| <u>Making good face brickwork</u> | | | |
| <u>Clean and remove old plant material, moss, water marks, dirt, loose, spalling and chipped sections from face brickwork with high pressure hose or chemical agent, painted/varnish and polished to make good</u> | | | |
| 21 | Walls | m2 | 115 |
| <u>Making good cement screeds</u> | | | |
| 22 | 30mm Thick on floors in patches | m2 | 84 |
| <u>Making good cement plaster by stripping back plaster, patching holes with new plaster including rubbing down imperfections to a smooth finish</u> | | | |
| 23 | Walls in patches | m2 | 9 |
| <u>OPENINGS THROUGH EXISTING WALLS ETC</u> | | | |
| <u>Breaking out for and forming openings through brick walls for new windows, including brick lintels, making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with sloping quarry tile sills on outside and flat quarry tile sills on inside (new windows and making good paintwork elsewhere)</u> | | | |
| 24 | Opening for window 533 x 654mm high through one brick wall | No | 1 |
| Carried Forward to Summary of Section No. 5 | | | R |
| Section No. 5 | | | |
| Refurbishments - Boys Ablutions | | | |
| Bill No. 1 | | | |
| Alterations | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 2 EARTHWORKS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Nature of material to be excavated</u></p> | | | |
| <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> | | | |
| <p><u>Classification of excavated material</u></p> | | | |
| <p>Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.</p> | | | |
| <p>Soft rock" shall mean hard material the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 2 Earthworks</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|--|-----|
| <u>Carting away of excavated material</u> | | |
| 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 | | |
| <u>Dewatering of excavations</u> | | |
| The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise | | |
| Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water | | |
| <u>Density testing on filling</u> | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | |
| <u>EARTH FILLING, ETC.</u> | | |
| <u>Filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | |
| 1 | Under floors, steps, pavings, etc. m3 | 0.3 |
| <u>Prescribed density tests on filling:</u> | | |
| 2 | Allow for compaction tests by an approved laboratory to determine density of filling material. No | 1 |
| <u>SOIL POISONING</u> | | |
| <u>Soil insecticide</u> | | |
| 3 | Under floors including any preparation, levelling, etc. m2 | 2 |
| Carried Forward to Summary of Section No. 5 | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 2 Earthworks | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 3 CONCRETE, FORMWORK & REINFORCEMENT</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> | | | |
| <p><u>Cost of tests:</u></p> | | | |
| <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> | | | |
| <p><u>Formwork:</u></p> | | | |
| <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 3 Concrete,Formwork, Reinforcement</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|--|-----------|
| <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> | | |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| <u>25MPa/19mm concrete</u> | | |
| 1 | Surface beds cast in panels on waterproofing | m3 0.2 |
| <u>SUNDRIES</u> | | |
| <u>Finishing top surfaces of concrete smooth with a power float</u> | | |
| 2 | Surface beds, slabs, etc | m2 2 |
| <u>MOVEMENT JOINTS</u> | | |
| <u>Expansion joints with 10mm "Masonite" bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| 3 | 20mm Joints not exceeding 300mm high | m 4 |
| <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| 4 | 10mm Joints not exceeding 300mm high | m 5 |
| Carried Forward | | R |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 3 Concrete,Formwork, Reinforcement</p> | | |

Brought Forward

STEEL REINFORCEMENT (PROVISIONAL)

Mesh reinforcement

| | | |
|---|--|----|
| 5 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 |
|---|--|----|

2

R

Carried Forward to Summary of Section No. 5

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 3
 Concrete, Formwork, Reinforcement

R

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 4 MASONRY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Sizes in descriptions</u></p> | | | |
| <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> | | | |
| <p><u>Hollow walls etc</u></p> | | | |
| <p>Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> | | | |
| <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> | | | |
| <p><u>Cement mortar</u></p> | | | |
| <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 4 Masonry</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|--|------|
| <u>Face bricks</u> | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | |
| <u>Pointing</u> | | |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | |
| <u>Brickwork Bond</u> | | |
| All brickwork shall be laid in stretcher bond unless otherwise stated | | |
| <u>Wire ties</u> | | |
| All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties | | |
| <u>Samples, etc</u> | | |
| Rates for brickwork, faced brickwork, etc shall include for all required samples | | |
| <u>BRICKWORK SUNDRIES</u> | | |
| <u>Brick reinforcement</u> | | |
| 1 | 150 mm wide reinforcement built in horizontally | m 19 |
| <u>Concrete prestressed fabricated lintels</u> | | |
| 2 | 110 x 75mm Lintels | m 2 |
| <u>"Terracotta" Air bricks etc</u> | | |
| 3 | Set of two 230 x 160mm high terra cotta clay vermin proof air bricks including making good reveals and gauze | No 1 |
| <u>FACE BRICKWORK</u> | | |
| Carried Forward | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 4 Masonry | | |

| Brought Forward | | | R |
|--|--|----|---|
| <p><u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u></p> | | | |
| 4 | One brick walls in stretcher bond pointed on both sides (Provisional). | m2 | 4 |
| <p><u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all exposed faces:</u></p> | | | |
| 5 | Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 110mm soffit | m | 1 |
| 6 | 220mm Wide sill set sloping and slightly projecting pointed on top and front edge | m | 1 |
| <p>Carried Forward to Summary of Section No. 5</p> | | | R |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 4 Masonry</p> | | | |

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 5 WATERPROOFING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</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>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | | |
| 1 | Under surface beds | m2 | 2 | |
| | <u>One layer of 375 micron black embossed polyplefin damp proof course complying with SANS 952 type B</u> | | | |
| 2 | On walls, under cills, etc. | m2 | 0.1 | |
| | Carried Forward to Summary of Section No. 5 | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 5 Waterproofing | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 6 CARPENTRY AND JOINERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Roof trusses</u></p> | | | |
| <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> | | | |
| <p><u>Joinery</u></p> | | | |
| <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> | | | |
| <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> | | | |
| <p><u>Decorative laminate finish</u></p> | | | |
| <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 6 Carpentry and Joinery</p> | | | R |

Brought Forward

R

Fixing

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

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

Where items are described as "bolted" the bolts have been measured elsewhere

NOTE:For pricing of the structural roof trusses, tenderers are referred to the drawings included at the end of these Bills of Quantities

GENERAL NOTES TO TENDERERS

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 6
 Carpentry and Joinery

Brought Forward

Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.

Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

DOORS AND PANELS

Tenderers are referred to Architect's Door & Window Schedules accompanying these Bills of Quantities for tender purposes.

Wrought meranti:

1 44mm thick framed, ledged and braced external flush door size 915 x 2032mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round (T01)

No

1

2 44mm thick framed, ledged and braced cubicle flush door size 813 x 1882mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round with door raised by 150mm from bottom(T02)

No

8

Carried Forward to Summary of Section No. 5

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 6
 Carpentry and Joinery

R

R

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> | | | |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> | | | |
| <p><u>Proprietary suspended ceilings</u></p> | | | |
| <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> | | | |
| <p><u>NAILED UP CEILINGS</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 7 Ceilings, Partitions, Access Flooring</p> | | | |
| | | | R |

| Brought Forward | | | | R |
|---|--|----|----|---|
| <u>9.5mm "Rhino" gypsum plasterboard ceilings with H-type pressed steel jointing laid in a staggered pattern</u> | | | | |
| 1 | Ceilings including 38 x 50mm sawn softwood branderling at not exceeding 400mm centres in one direction | m2 | 41 | |
| 2 | 75mm Coved gypsum ceiling. | m | 30 | |
| Carried Forward to Summary of Section No. 5 | | | | |
| Section No. 5 | | | | |
| Refurbishments - Boys Ablutions | | | | |
| Bill No. 7 | | | | |
| Ceilings, Partitions, Access Flooring | | | | |
| | | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 8 IRONMONGERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Finishes to ironmongery</u></p> | | | |
| <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> | | | |
| <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 8 Ironmongery</p> | | | |
| | | | R |

| Brought Forward | | | R |
|---|--|------|-----|
| <u>Fixing</u> | | | |
| Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories | | | |
| Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer | | | |
| <u>Note: Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u> | | | |
| <u>LOCKS</u> | | | |
| The following locks are to be suitable for master key operation | | | |
| <u>"Union" or other approved</u> | | | |
| 1 | D036S-SS Cylinder sash lock, case dimensions (mm) 116.5H x 78D, forend dimension(mm) 168H x 22W, backset 57mm with 61mm centres. | No | 8 |
| 2 | DBC006601 66mm Euro-profile bathroom/privacy cylinder | No | 8 |
| 3 | DSC104301 MK 43mm five pin Euro-profile single cylinder, master keyed | No | 1 |
| 4 | D037D SS Cylinder deadlock, case dimensions(mm) 116.5H x 78D. Forend dimensions(mm) 168H x 22W (Stainless Steel) | No | 1 |
| 5 | DCE-002 SS Round cylinder escutcheon (Stainless Steel) | Sets | 1.0 |
| <u>HANDLES</u> | | | |
| <u>"Union" or equally approved:</u> | | | |
| 6 | CB30 CylS.C Lever handle on plate with cylinder cut out | Sets | 8.0 |
| 7 | DPH301C BTB 149x19mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 2 |
| Carried Forward | | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 8 Ironmongery | | | |

| Brought Forward | | | R |
|--|--|------|-----|
| <u>DOOR CLOSERS</u> | | | |
| <u>"Solid"</u> | | | |
| 8 | TS73V-SL EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing (Silver) (Regular Arm Bracket Included) | Sets | 1.0 |
| <u>LETTERS, NAMEPLATES, ETC</u> | | | |
| <u>Stainless steel</u> | | | |
| 9 | DSS-130 M 150 x 150mm MALE sign | No | 1 |
| <u>BATHROOM FITTINGS</u> | | | |
| <u>Stainless steel</u> | | | |
| 10 | Wall mounted lockable Toilet Paper Dispenser-3 Roll-TR3 | No | 8 |
| 11 | Golden touch lockable wall mounted soap dispenser with 1.2litre capacity | No | 2 |
| 12 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel wall mounted paper towel dispenser (Code:359700), size 300 x 134 x 304mm deep, capacity of 300-400 towels, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws. | No | 2 |
| 13 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel 18 Litre wall mounted waste bin | No | 2 |
| <u>SUNDRIES</u> | | | |
| <u>Solid</u> | | | |
| 14 | DDS-SS-017 Floor Mounted Door Stop (Stainless Steel) | No | 1 |
| 15 | DHC-SS-031B dormakaba hat and coat hook with rubber buffer | No | 8 |
| Carried Forward to Summary of Section No. 5 | | | R |
| Section No. 5 | | | |
| Refurbishments - Boys Ablutions | | | |
| Bill No. 8 | | | |
| Ironmongery | | | |

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>BILL NO. 9 METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>BURGLAR BARS, ETC.</u></p> <p><u>40 x 12mm thick steel framing with 10mm diameter pre-drilled holes to house coach screws with framing fitted with horizontal 12mm thick steel solid round/rod welded to frame at 98mm centres. Including treating bars for rust and painting with high gloss polyurethane alkyd to architect specifications.</u></p> | | | |
| 1 | Burglar for window size 533 x 654mm high (Refer to window schedule) | No | 8 | |
| | Carried Forward | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 9 Metalwork | | | |

| Brought Forward | | R |
|---|--|------|
| 2 | Burglar for window size 1020 x 655mm high (Refer to window schedule) | No 3 |
| <u>PRESSED STEEL DOOR FRAMES</u> | | |
| <u>1,6mm Single rebated frames suitable for one brick walls</u> | | |
| 3 | Frame for single door 915 x 2032mm high | No 1 |
| <u>1,2mm Single rebated frames suitable for half brick walls</u> | | |
| 4 | Frame for single door 813 x 2032mm high | No 3 |
| <u>PRESSED STEEL WINDOWS, ETC.</u> | | |
| <u>School type windows</u> | | |
| 5 | Standard window type NE1, size 533 x 654mm high including pre-installed burglar bars | No 1 |
| <u>STEEL GATES, SCREENS, ETC</u> | | |
| <u>Welded screens and gates to concrete or brickwork</u> | | |
| Tenderers are referred to Architects Gate Schedules accompanying these Bills of Quantities for tender purposes. | | |
| 6 | Custom made mild steel security gate size 925 x 2082mm high comprising of 50 x 38 x 1.6mm rectangular hollow section frame, 30 x 28 x 1.6mm rectangular hollow section gate opening frame fitted with 25 x 25 x 1.6mm square hollow section intermediates welded to frame at 100mm c/c at 45 degree angle, two bullet hinges welded to frame, 6No angle lugs welded to frame, holed to and plugged with M12 chemical anchors, including double throw dead lock locking mechanism | No 1 |
| Carried Forward to Summary of Section No. 5 | | |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 9 Metalwork | | R |

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 10 PLASTERING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>SCREEDS</u> | | | |
| | <u>Screed</u> | | | |
| 1 | 30mm Thick on floors finished with wood trowel to a level finish | m2 | 2 | |
| | <u>Prepare screeded surfaces as described, prime with three component' primer (3m²/1 litre) and apply three component coloured epoxy screed and two coats HACCP International certified anti antimicrobial treated non-slip polyurethane resin floor sealer:</u> | | | |
| 2 | 4-6mm Thick on floors to falls and currents | m2 | 43 | |
| | <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> | | | |
| 3 | 30 x 3mm Flat section brass dividing strips between differing floor finishes | m | 1 | |
| | Carried Forward to Summary of Section No. 5 | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 10 Plastering | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 5</u></p> | | | |
| <p><u>BILL NO. 11 PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content</p> | | | |
| <p><u>"Polycop" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> | | | |
| <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> | | | |
| <p>All pipe diameters are nominal external</p> | | | |
| <p><u>"Polylink" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> | | | |
| <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 11 Plumbing and Drainage(Provisional)</p> | | | |
| | | | R |

| | |
|---|----------|
| <p style="text-align: center;">Brought Forward</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> | <p>R</p> |
| <p style="text-align: center;">Carried Forward</p> <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 11 Plumbing and Drainage(Provisional)</p> | <p>R</p> |

Brought Forward

R

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

Copper pipes:

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

Fixing of pipes

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

Chasing

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes

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

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 11
 Plumbing and Drainage(Provisional)

Brought Forward

R

Wire gratings

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

Septic tanks

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

Flush pans

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

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 11
 Plumbing and Drainage(Provisional)

| Brought Forward | | R |
|--|--|----|
| <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> | | |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable | | |
| <u>Waste unions</u> | | |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings | | |
| <u>Steel sectional water tanks</u> | | |
| Tanks shall comply with SABS CKS 114 | | |
| <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd (or equally approved).</u> | | |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc | | |
| <u>RAINWATER DISPOSAL (PROVISIONAL):</u> | | |
| <u>0.8mm thick continuous hot-dip zinc coated carbon steel or aluminium gutter with chromadek finish colour to architect specifications.</u> | | |
| 1 | 125 x 100 x 0.8mm thick gutters fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets. | 11 |
| 2 | 100 x 100mm rainwater pipes to match existing fixed to walls with and including approved holderbats at 900mm centres. | 9 |
| 3 | Extra over eaves gutter for outlet for 100 x 100mm pipe. | 4 |
| 4 | Extra over rainwater pipe for swan-neck | 4 |
| 5 | Extra over rainwater pipe for bend. | 8 |
| 6 | Extra over rainwater pipe for shoe. | 4 |
| Carried Forward | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 11 Plumbing and Drainage(Provisional) | | |

Brought Forward

R

SANITARY FITTINGS

Note: Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)

Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion:

White vitreous china or equal approved wash hand basins and pedestals:

7 Atlas basin and semi pedestal comprises a wall-mounted basin with a semi (or half) pedestal, size 500 x 480mm rounded with three semi-punched tap holes, integrated overflow, and chain stay hole through the centre semi-punched tap hole 2x bolted to wall and sealed with silicone sealant where basin meets wall

No 5

White vitreous china or equal approved WC, etc:

8 Atlas or equal approved 366 x 275 x 395mm deep back to wall top entry floor mounted open rim pan with jazz thermoset seat including opening for wall mounting (Code: ATLPANBTW0TOPUE)

No 8

9 Vitreous china wall hung or equal approved "Atlas" top entry urinal (Code: ATLBOXURI0T40BE) overall size 300 x 400 x 245mm including 38mm chromium plated domical grating and chromium plated top inlet spreader fixed on and including two hanger brackets

No 8

10 Atlas urinal separator 150 x 320 x 630mm high fixed to wall

No 8

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 11
 Plumbing and Drainage(Provisional)

R

Brought Forward

TRAPS, ETC

Note: All traps are to include for connectors and fitting to waste outlet at one end and to waste pipe at other end

Traps, etc

| | | | |
|----|--|----|---|
| 11 | 32 x 40mm "ELF" anti-vac bottle trap combination for whb | No | 5 |
|----|--|----|---|

TAPS, VALVES, ETC

"Cobra Watertech" or equally approved

| | | | |
|----|---|----|---|
| 12 | Chrome plated nile pillar type single lever basin mixer with flow rate restricted to 6.0 litres/ min G1/2 female connection ends. | No | 5 |
|----|---|----|---|

| | | | |
|----|--|----|----|
| 13 | 15mm Type 382/10 CP angle regulating valve | No | 13 |
|----|--|----|----|

| | | | |
|----|--|----|---|
| 14 | FJ6.000CP "Flushmaster Junior" urinal flush valve including flush pipe FJT.5 | No | 8 |
|----|--|----|---|

| | | | |
|----|--|----|---|
| 15 | Exposed top entry non-hold open feature master standard toilet flush valve with wall flange, integral vacuum breaker and butterfly control inlet including straight flushpipe and compression pan connector. | No | 8 |
|----|--|----|---|

SANITARY PLUMBING

uPVC pipes

| | | | |
|----|------------|---|----|
| 16 | 50mm Pipes | m | 40 |
|----|------------|---|----|

| | | | |
|----|----------------------------|---|----|
| 17 | 110mm Pipe fixed to walls. | m | 16 |
|----|----------------------------|---|----|

Extra over uPVC pipes for

| | | | |
|----|-----------|----|----|
| 18 | 50mm Bend | No | 20 |
|----|-----------|----|----|

| | | | |
|----|------------------|----|---|
| 19 | 50mm Access bend | No | 5 |
|----|------------------|----|---|

| | | | |
|----|---------------------|----|---|
| 20 | 110mm Pan connector | No | 8 |
|----|---------------------|----|---|

Carried Forward

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 11
 Plumbing and Drainage(Provisional)

| Brought Forward | | | R |
|--|--|----|------|
| 21 | 110mm Access bent pan connector with anti-syphon horn | No | 8 |
| | <u>Testing:</u> | | |
| 22 | Testing waste pipe system | | Item |
| | <u>WATER SUPPLIES</u> | | |
| | <u>Class 0 copper pipes</u> | | |
| 23 | 15 mm Pipes | m | 54 |
| 24 | 22 mm Pipes | m | 3 |
| | <u>Extra over class 0 copper pipes for brass capillary fittings</u> | | |
| 25 | 15 mm Fittings | No | 96 |
| 26 | 22 mm Fittings | No | 65 |
| | <u>Testing</u> | | |
| 27 | Testing of water pipe system | | Item |
| Carried Forward to Summary of Section No. 5 | | | R |
| Section No. 5 | | | |
| Refurbishments - Boys Ablutions | | | |
| Bill No. 11 | | | |
| Plumbing and Drainage(Provisional) | | | |

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|---|----------------|------|--------|
| | <u>BILL NO. 12 GLAZING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>Float glass</u> | | | |
| | The term "float glass" is used for monolithic annealed glass | | | |
| | <u>Laminated glass</u> | | | |
| | Laminated glass to have polyvinyl butyral (PVB) interlayer(s) | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | <u>6.28mm Obscure Safety Glass</u> | | | |
| 1 | Panels exceeding 0,1m ² and not exceeding 0,5m ² | m ² | 3 | |
| 2 | Panels exceeding 0,5m ² and not exceeding 2m ² | m ² | 3 | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> | | | |
| | <u>6mm Clear float glass silver backed mirrors with bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u> | | | |
| 3 | Mirror 600 x 800mm high with four screws | No | 5 | |
| | Carried Forward to Summary of Section No. 5 | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 12 Glazing | | | |

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 13 PAINTWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>PAINTWORK, ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine, apply one universal undercoat and paint with two coats eggshell enamel paint on:</u> | | | |
| 1 | On fascia and barge boards. | m2 | 5 | |
| | <u>ON PLASTER BOARD</u> | | | |
| | <u>One coat primer and two coats interior quality acrylic PVA emulsion paint.</u> | | | |
| 2 | On ceilings and cornices | m2 | 41 | |
| | <u>ON METAL SURFACES</u> | | | |
| | Carried Forward | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 13 Paintwork | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <p><u>Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:</u></p> | | | |
| 3 | Steel window frames | m2 | 1 |
| 4 | On door frames | m2 | 4 |
| <p><u>Prepare and apply one coat alkyd based zinc chromate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint on:</u></p> | | | |
| 5 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 15 |
| <p><u>ON WOOD</u></p> | | | |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats eggshell enamel or other approved on:</u></p> | | | |
| 6 | On doors | m2 | 31 |
| <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats Polyurethane Alkyd coating or other approved on:</u></p> | | | |
| <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u></p> | | | |
| <p><u>ON FLOATED PLASTER</u></p> | | | |
| Carried Forward | | | R |
| <p>Section No. 5 Refurbishments - Boys Ablutions Bill No. 13 Paintwork</p> | | | |

Brought Forward

R

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat professional gypsum and two coats "Plascon Double Velvet "paint on:

| | | | |
|---|-------------------|----|----|
| 7 | On internal walls | m2 | 82 |
| 8 | On external walls | m2 | 16 |

ON METAL

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat plaster primer UC56 and two coats enamel paint on:

| | | | |
|----|---------------------------|----|----|
| 9 | Steel window frames | m2 | 11 |
| 10 | Pressed steel door frames | m2 | 10 |

Carried Forward to Summary of Section No. 5

R

Section No. 5
 Refurbishments - Boys Ablutions
 Bill No. 13
 Paintwork

| Item No | <u>SECTION NO. 5</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 14 APRONS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN APRONS</u> | | | |
| | <u>EXCAVATION</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 1 | Reduce levels under surface beds | m3 | 8 | |
| | Carried Forward | | | R |
| | Section No. 5 Refurbishments - Boys Ablutions Bill No. 14 Concrete Aprons | | | |

| Brought Forward | | | R |
|---|--|----|----|
| <u>Extra over all excavations for carting away</u> | | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 8 |
| <u>FILLING, ETC</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>Surface bed preparation</u> | | | |
| 3 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 52 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | | |
| 4 | Under floors, etc | m3 | 29 |
| <u>Compaction of surfaces</u> | | | |
| 5 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 52 |
| <u>PROTECTION AGAINST TERMITES</u> | | | |
| <u>Soil insecticide</u> | | | |
| 6 | Under floors including any preparation, levelling, etc. | m2 | 52 |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| Carried Forward | | | R |
| Section No. 5 Refurbishments - Boys Ablutions Bill No. 14 Concrete Aprons | | | |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>25MPa/19mm concrete</u> | | |
| 7 | Surface beds cast in panels on waterproofing | m3 | 9 |
| | <u>CONCRETE SUNDRIES</u> | | |
| | <u>Finishing top surfaces of concrete smooth with a wood float</u> | | |
| 8 | Surface beds, slabs, etc to falls | m2 | 52 |
| | <u>MOVEMENT JOINTS</u> | | |
| | <u>Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysuphide sealant:</u> | | |
| 9 | 10mm Joints not exceeding 300mm high | m | 45 |
| | <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> | | |
| | <u>Smooth formwork to sides</u> | | |
| 10 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 45 |
| | <u>Fabric reinforcement</u> | | |
| 11 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 52 |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | |
| 12 | Under surface beds | m2 | 52 |
| Carried Forward to Summary of Section No. 5 | | | R |
| Section No. 5 | | | |
| Refurbishments - Boys Ablutions | | | |
| Bill No. 14 | | | |
| Concrete Aprons | | | |

SECTION SUMMARY - Refurbishments - Boys Ablutions

| Bill No | | Page No | Amount |
|--|---------------------------------------|---------|--------|
| 1 | Alterations | 164 | |
| 2 | Earthworks | 166 | |
| 3 | Concrete,Formwork, Reinforcement | 169 | |
| 4 | Masonry | 172 | |
| 5 | Waterproofing | 173 | |
| 6 | Carpentry and Joinery | 176 | |
| 7 | Ceilings, Partitions, Access Flooring | 178 | |
| 8 | Ironmongery | 181 | |
| 9 | Metalwork | 183 | |
| 10 | Plastering | 184 | |
| 11 | Plumbing and Drainage(Provisional) | 192 | |
| 12 | Glazing | 193 | |
| 13 | Paintwork | 196 | |
| 14 | Concrete Aprons | 199 | |
| Carried to Final Summary | | | R |
| Section No. 5 Refurbishments - Boys Ablutions | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 1 ALTERATIONS (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Descriptions and Preambles</u></p> | | | |
| <p>The full descriptions of the items and all preambles in the previous and following trades, shall, unless otherwise stated, also be applicable to the relevant items in this trade.</p> | | | |
| <p><u>View site</u></p> | | | |
| <p>Before submitting this tender, the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> | | | |
| <p><u>Explosives</u></p> | | | |
| <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p> | | | |
| <p><u>General</u></p> | | | |
| <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectively stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 1 Alterations</p> | | | |
| | | | R |

Brought Forward

R

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, doorstops, etc and making good floor and wall finishes to match existing.

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.

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

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

Asbestos removal

Removal of asbestos materials shall be executed in compliance with the regulations set out in the Occupational Health and Safety Act

Removal of asbestos materials shall be executed by a certified asbestos removal contractor

The disposal of the removed asbestos to be disposed at a registered approved asbestos dumpsite with certificate of disposal.

Old materials to be carted away

Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 1
 Alterations

Brought Forward

R

Old materials not to be re-used

None of the old materials are to be used for new work except where specifically described to be set aside for re-use.

Handing over of materials

Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the contractor, until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the contractor.

Abbreviations

For the purpose of this bill certain abbreviations have been made use of, the full meanings of which are as follows:

"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for the plaster or other finishings

"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 1
 Alterations

Brought Forward

"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

R

Carried Forward

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 1
 Alterations

R

| Brought Forward | | | R |
|---|--|----|----|
| <u>REMOVAL OF EXISTING WORK</u> | | | |
| <u>Taking out and removing doors, windows, etc from brickwork to remain</u> | | | |
| 1 | Timber door 813 x 2032m high overall | No | 10 |
| 2 | Timber door 915 x 2032m high overall | No | 1 |
| <u>Taking out and removing ironmongery</u> | | | |
| 3 | Mortice lockset from timber door | No | 11 |
| 4 | Door closer from timber door and frame | No | 1 |
| <u>Taking out/off and removing sundry metalwork</u> | | | |
| 5 | Steel gate 915 x 2125m high overall | No | 1 |
| <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u> | | | |
| 6 | Gypsum plasterboard ceilings, including timber brandering, cornices, etc | m2 | 41 |
| 7 | Fascia boards | m | 22 |
| 8 | Barge boards | m | 25 |
| 9 | Steel gutters | m | 22 |
| 10 | Down pipes | m | 9 |
| <u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u> | | | |
| 11 | Vitreous china WC pan with cistern and flush pipe | No | 10 |
| <u>MAKING GOOD OF FINISHES ETC</u> | | | |
| <u>Making good roof covering</u> | | | |
| 12 | Inspect the entire roof covering for leaks, rust, etc and make good/repair/replace where damaged as directed by the Principal Agent (PC R 100/m2) measured flat on plan. | m2 | 48 |
| Carried Forward | | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 1 Alterations | | | |

| Brought Forward | | | R |
|--|---|----|-----|
| <u>Making good existing steel windows</u> | | | |
| 13 | Service 533 x 654mm windows ,including ensuring smooth opening, closing and replacement of broken glass, peg stays, sliding arms, etc. as necessary to match existing. | No | 10 |
| 14 | Service 1020 x 655mm windows ,including ensuring smooth opening, closing and replacement of broken glass, peg stays, sliding arms, etc. as necessary to match existing. | No | 4 |
| <u>Making good existing steel door frames</u> | | | |
| 15 | Service 813 x 2032mm door frame suitable for half brick wall including ensuring hinges, striker plates are repaired and/or replaced where damaged, etc. as necessary to match existing. | No | 10 |
| <u>Making good face brickwork</u> | | | |
| <u>Clean and remove old plant material, moss, water marks, dirt, loose, spalling and chipped sections from face brickwork with high pressure hose or chemical agent, painted/varnish and polished to make good</u> | | | |
| 16 | Walls | m2 | 118 |
| <u>Making good cement screeds</u> | | | |
| 17 | 30mm Thick on floors in patches | m2 | 83 |
| Carried Forward to Summary of Section No. 6 | | | R |
| Section No. 6 | | | |
| Refurbishments - Girls Ablutions | | | |
| Bill No. 1 | | | |
| Alterations | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 2 MASONRY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Sizes in descriptions</u></p> | | | |
| <p>Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick</p> | | | |
| <p><u>Hollow walls etc</u></p> | | | |
| <p>Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> | | | |
| <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> | | | |
| <p><u>Cement mortar</u></p> | | | |
| <p>Unless otherwise described, all brickwork shall be built in 1:6 cement mortar</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 2 Masonry</p> | | | |
| | | | R |

| Brought Forward | | R |
|---|---|-------|
| <u>Face bricks</u> | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | |
| <u>Pointing</u> | | |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | |
| <u>Brickwork Bond</u> | | |
| All brickwork shall be laid in stretcher bond unless otherwise stated | | |
| <u>Wire ties</u> | | |
| All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties | | |
| <u>Samples, etc</u> | | |
| Rates for brickwork, faced brickwork, etc shall include for all required samples | | |
| <u>BRICKWORK SUNDRIES</u> | | |
| <u>Brick reinforcement</u> | | |
| 1 | 75 mm wide reinforcement built in horizontally | m 43 |
| <u>FACE BRICKWORK</u> | | |
| <u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u> | | |
| 2 | Half brick walls in stretcher bond pointed on both sides (Provisional). | m2 10 |
| Carried Forward to Summary of Section No. 6 | | R |
| Section No. 6 | | |
| Refurbishments - Girls Ablutions | | |
| Bill No. 2 | | |
| Masonry | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 3 CARPENTRY AND JOINERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Roof trusses</u></p> | | | |
| <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> | | | |
| <p><u>Joinery</u></p> | | | |
| <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> | | | |
| <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> | | | |
| <p><u>Decorative laminate finish</u></p> | | | |
| <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 3 Carpentry and Joinery</p> | | | R |

Brought Forward

R

Fixing

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used

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

Where items are described as "bolted" the bolts have been measured elsewhere

NOTE:For pricing of the structural roof trusses, tenderers are referred to the drawings included at the end of these Bills of Quantities

GENERAL NOTES TO TENDERERS

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 3
 Carpentry and Joinery

Brought Forward

Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.

Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

DOORS AND PANELS

Tenderers are referred to Architect's Door & Window Schedules accompanying these Bills of Quantities for tender purposes.

Wrought meranti:

1 44mm thick framed, ledged and braced external flush door size 915 x 2032mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round (T01)

No

1

2 44mm thick framed, ledged and braced cubicle flush door size 813 x 1882mm high with, made of 44 x 110 mm top rail and stiles, 40 x 150 mm middle ledge and braces and 40 x 220mm bottom rail filled in with 70 x 22 tongue and groove V-jointed on one side boarding to match door let into and including rebates all round with door raised by 150mm from bottom(T02)

No

10

Carried Forward to Summary of Section No. 6

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 3
 Carpentry and Joinery

R

R

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 4 CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Descriptions</u></p> | | | |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> | | | |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> | | | |
| <p><u>Proprietary suspended ceilings</u></p> | | | |
| <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> | | | |
| <p><u>NAILED UP CEILINGS</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 4 Ceilings, Partitions, Access Flooring</p> | | | |
| | | R | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 5 IRONMONGERY</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Finishes to ironmongery</u></p> | | | |
| <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list</p> | | | |
| <p>BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 5 Ironmongery</p> | | | |
| | | | R |

| Brought Forward | | | R |
|---|--|------|------|
| <u>Fixing</u> | | | |
| Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories | | | |
| Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer | | | |
| <u>Note: Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u> | | | |
| <u>LOCKS</u> | | | |
| The following locks are to be suitable for master key operation | | | |
| <u>"Union" or other approved</u> | | | |
| 1 | D036S-SS Cylinder sash lock, case dimensions (mm) 116.5H x 78D, forend dimension(mm) 168H x 22W, backset 57mm with 61mm centres. | No | 10 |
| 2 | DBC006601 66mm Euro-profile bathroom/privacy cylinder | No | 10 |
| 3 | DSC104301 MK 43mm five pin Euro-profile single cylinder, master keyed | No | 1 |
| 4 | D037D SS Cylinder deadlock, case dimensions(mm) 116.5H x 78D. Forend dimensions(mm) 168H x 22W (Stainless Steel) | No | 1 |
| 5 | DCE-002 SS Round cylinder escutcheon (Stainless Steel) | Sets | 1.0 |
| <u>HANDLES</u> | | | |
| <u>"Union" or equally approved:</u> | | | |
| 6 | CB30 CylS.C Lever handle on plate with cylinder cut out | Sets | 10.0 |
| 7 | DPH301C BTB 149x19mm Straight Tubular Pull Handle BT (Stainless Steel) | No | 2 |
| Carried Forward | | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 5 Ironmongery | | | |

| Brought Forward | | | R |
|--|--|------|-----|
| <u>DOOR CLOSERS</u> | | | |
| <u>"Solid"</u> | | | |
| 8 | TS73V-SL EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing (Silver) (Regular Arm Bracket Included) | Sets | 1.0 |
| <u>LETTERS, NAMEPLATES, ETC</u> | | | |
| <u>Stainless steel</u> | | | |
| 9 | DSS-131 F 150 x 150mm FEMALE sign | No | 1 |
| <u>BATHROOM FITTINGS</u> | | | |
| <u>Stainless steel</u> | | | |
| 10 | Wall mounted lockable Toilet Paper Dispenser-3 Roll-TR3 | No | 10 |
| 11 | 20Litre rust resistant, S/S Satin finish surface mounted sanitary bin overall size 355 x 460 x 186mm as per architect's specification (Code:N-SBIN-20-SS) | No | 10 |
| 12 | Golden touch lockable wall mounted soap dispenser with 1.2litre capacity | No | 2 |
| 13 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel wall mounted paper towel dispenser (Code:359700), size 300 x 134 x 304mm deep, capacity of 300-400 towels, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws. | No | 2 |
| 14 | Grade 304 1,2/1,5mm thick 18/10 satin stainless steel 18 Litre wall mounted waste bin | No | 2 |
| <u>SUNDRIES</u> | | | |
| <u>Solid</u> | | | |
| 15 | DDS-SS-017 Floor Mounted Door Stop (Stainless Steel) | No | 1 |
| 16 | DHC-SS-031B dormakaba hat and coat hook with rubber buffer | No | 11 |
| Carried Forward to Summary of Section No. 6 | | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 5 Ironmongery | | | |

| Item No | <u>SECTION NO. 6</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 6 METALWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <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 of concrete | | | |
| | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described | | | |
| | <u>BURGLAR BARS, ETC.</u> | | | |
| | <u>40 x 12mm thick steel framing with 10mm diameter pre-drilled holes to house coach screws with framing fitted with horizontal 12mm thick steel solid round/rod welded to frame at 98mm centres. Including treating bars for rust and painting with high gloss polyurethane alkyd to architect specifications.</u> | | | |
| 1 | Burglar for window size 533 x 654mm high (Refer to window schedule) | No | 10 | |
| | Carried Forward | | | R |
| | Section No. 6 Refurbishments - Girls Ablutions Bill No. 6 Metalwork | | | |

| Brought Forward | | | R |
|---|--|----|---|
| 2 | Burglar for window size 1020 x 655mm high (Refer to window schedule) | No | 3 |
| <u>PRESSED STEEL DOOR FRAMES</u> | | | |
| <u>1,6mm Single rebated frames suitable for one brick walls</u> | | | |
| 3 | Frame for single door 915 x 2032mm high | No | 1 |
| <u>STEEL GATES, SCREENS, ETC</u> | | | |
| <u>Welded screens and gates to concrete or brickwork</u> | | | |
| Tenderers are referred to Architects Gate Schedules accompanying these Bills of Quantities for tender purposes. | | | |
| 4 | Custom made mild steel security gate size 925 x 2082mm high comprising of 50 x 38 x 1.6mm rectangular hollow section frame, 30 x 28 x 1.6mm rectangular hollow section gate opening frame fitted with 25 x 25 x 1.6mm square hollow section intermediates welded to frame at 100mm c/c at 45 degree angle, two bullet hinges welded to frame, 6No angle lugs welded to frame, holed to and plugged with M12 chemical anchors, including double throw dead lock locking mechanism | No | 1 |
| Carried Forward to Summary of Section No. 6 | | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 6 Metalwork | | | |

| Item No | <u>SECTION NO. 6</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 7 PLASTERING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>SCREEDS</u> | | | |
| | <u>Prepare screeded surfaces as described, prime with three component' primer (3m²/1 litre) and apply three component coloured epoxy screed and two coats HACCP International certified anti antimicrobial treated non-slip polyurethane resin floor sealer:</u> | | | |
| 1 | 4-6mm Thick on floors to falls and currents | m2 | 41 | |
| | <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> | | | |
| 2 | 30 x 3mm Flat section brass dividing strips between differing floor finishes | m | 1 | |
| | Carried Forward to Summary of Section No. 6 | | | R |
| | Section No. 6 Refurbishments - Girls Ablutions Bill No. 7 Plastering | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 8 TILING</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> | | | |
| <p><u>Fixing</u></p> | | | |
| <p>Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding</p> | | | |
| <p>Prime cost amounts shall include for ordering of materials from drawings and delivery of materials to site. The areas measured are the net area of tiling laid and the contractor shall include in his rate for all waste of materials, approved adhesive , jointing compound, labour to complete and markup,.</p> | | | |
| <p><u>WALL TILING</u></p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 8 Tiling</p> | | | |
| | | | R |

| Brought Forward | | R |
|--|--|---------|
| | <u>600 x 600 x 6mm thick first grade glazed porcelein wall tiles with tile wear rating 4 fixed to plaster (plaster elsewhere) with tile adhesive with 3mm joints continuous in both directions, jointed and flush pointed with professional high performance mould and bacteria resistant tile grout installed in strict accordance with the manufacturer's instructions on:</u> | |
| 1 | On walls in isolated panels, splashbacks, etc | m2 6 |
| | <u>SUNDRIES</u> | |
| | <u>"Kirk Marketing" or equal approved corner protectors, dividing strips, edge trims, covers, etc:</u> | |
| 2 | 12mm Aluminium straight edge trim fixed in accordance to manufacturer's recommendations (Code:ASQE120). | m 9 |
| Carried Forward to Summary of Section No. 6 | | |
| Section No. 6 | | |
| Refurbishments - Girls Ablutions | | |
| Bill No. 8 | | |
| Tiling | | |
| | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 6</u></p> | | | |
| <p><u>BILL NO. 9 PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions</u></p> | | | |
| <p>G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content</p> | | | |
| <p><u>"Polycop" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> | | | |
| <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> | | | |
| <p>All pipe diameters are nominal external</p> | | | |
| <p><u>"Polylink" polypropylene pipes:</u></p> | | | |
| <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> | | | |
| <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 9 Plumbing and Drainage(Provisional)</p> | | | R |

| | |
|---|----------|
| <p style="text-align: center;">Brought Forward</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> | <p>R</p> |
| <p style="text-align: center;">Carried Forward</p> <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 9 Plumbing and Drainage(Provisional)</p> | <p>R</p> |

Brought Forward

R

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

Copper pipes:

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

Fixing of pipes

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

Chasing

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes

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

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 9
 Plumbing and Drainage(Provisional)

Brought Forward

R

Wire gratings

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

Septic tanks

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

Exposed concrete surfaces

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

Excavations

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

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

Laying, backfilling, bedding, etc. of pipes

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

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

Flush pans

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

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 9
 Plumbing and Drainage(Provisional)

| Brought Forward | | R |
|--|--|---|
| <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> | | |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable | | |
| <u>Waste unions</u> | | |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings | | |
| <u>Steel sectional water tanks</u> | | |
| Tanks shall comply with SABS CKS 114 | | |
| <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd (or equally approved).</u> | | |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc | | |
| <u>RAINWATER DISPOSAL (PROVISIONAL):</u> | | |
| <u>0.8mm thick continuous hot-dip zinc coated carbon steel or aluminium gutter with chromadek finish colour to architect specifications.</u> | | |
| 1 | 100 x 100mm rainwater pipes to match existing fixed to walls with and including approved holderbats at 900mm centres. m | 9 |
| 2 | Extra over eaves gutter for outlet for 100 x 100mm pipe. No | 4 |
| 3 | Extra over rainwater pipe for swan-neck No | 4 |
| 4 | Extra over rainwater pipe for bend. No | 8 |
| 5 | Extra over rainwater pipe for shoe. No | 4 |
| Carried Forward | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 9 Plumbing and Drainage(Provisional) | | |

Brought Forward

R

SANITARY FITTINGS

Note: Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)

Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion:

White vitreous china or equal approved wash hand basins and pedestals:

- 6 Atlas basin and semi pedestal comprises a wall-mounted basin with a semi (or half) pedestal, size 500 x 480mm rounded with three semi-punched tap holes, integrated overflow, and chain stay hole through the centre semi-punched tap hole 2x bolted to wall and sealed with silicone sealant where basin meets wall

No 5

White vitreous china or equal approved WC, etc:

- 7 Atlas or equal approved 366 x 275 x 395mm deep back to wall top entry floor mounted open rim pan with jazz thermoset seat including opening for wall mounting (Code: ATLPANBTW0TOPUE)

No 10

TRAPS, ETC

Note: All traps are to include for connectors and fitting to waste outlet at one end and to waste pipe at other end

Traps, etc

- 8 32 x 40mm "ELF" anti-vac bottle trap combination for whb

No 5

TAPS, VALVES, ETC

Carried Forward

R

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 9
 Plumbing and Drainage(Provisional)

| Brought Forward | | | R |
|---|--|----|------|
| <u>"Cobra Watertech" or equally approved</u> | | | |
| 9 | Chrome plated nile pillar type single lever basin mixer with flow rate restricted to 6.0 litres/ min G1/2 female connection ends. | No | 5 |
| 10 | 15mm Type 382/10 CP angle regulating valve | No | 15 |
| 11 | Exposed top entry non-hold open feature master standard toilet flush valve with wall flange, integral vacuum breaker and butterfly control inlet including straight flushpipe and compression pan connector. | No | 10 |
| <u>SANITARY PLUMBING</u> | | | |
| <u>uPVC pipes</u> | | | |
| 12 | 50mm Pipes | m | 40 |
| 13 | 110mm Pipe fixed to walls. | m | 20 |
| <u>Extra over uPVC pipes for</u> | | | |
| 14 | 50mm Bend | No | 20 |
| 15 | 50mm Access bend | No | 5 |
| 16 | 110mm Pan connector | No | 10 |
| 17 | 110mm Access bent pan connector with anti-syphon horn | No | 10 |
| <u>Testing:</u> | | | |
| 18 | Testing waste pipe system | | Item |
| <u>WATER SUPPLIES</u> | | | |
| <u>Class 0 copper pipes</u> | | | |
| 19 | 15 mm Pipes | m | 60 |
| 20 | 22 mm Pipes | m | 3 |
| Carried Forward | | | R |
| Section No. 6 Refurbishments - Girls Ablutions Bill No. 9 Plumbing and Drainage(Provisional) | | | |

| Item No | <u>SECTION NO. 6</u> | Quantity | Rate | Amount |
|---------|---|----------------|------|--------|
| | <u>BILL NO. 10 GLAZING</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>Float glass</u> | | | |
| | The term "float glass" is used for monolithic annealed glass | | | |
| | <u>Laminated glass</u> | | | |
| | Laminated glass to have polyvinyl butyral (PVB) interlayer(s) | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | <u>6.28mm Obscure Safety Glass</u> | | | |
| 1 | Panels exceeding 0,1m ² and not exceeding 0,5m ² | m ² | 3 | |
| 2 | Panels exceeding 0,5m ² and not exceeding 2m ² | m ² | 3 | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> | | | |
| | <u>6mm Clear float glass silver backed mirrors with bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u> | | | |
| 3 | Mirror 600 x 800mm high with four screws | No | 5 | |
| | Carried Forward to Summary of Section No. 6 | | | R |
| | Section No. 6 Refurbishments - Girls Ablutions Bill No. 10 Glazing | | | |

| Item No | <u>SECTION NO. 6</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 11 PAINTWORK</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Proprietary products in descriptions</u> | | | |
| | Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent | | | |
| | <u>PAINTWORK, ETC TO NEW WORK</u> | | | |
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine, apply one universal undercoat and paint with two coats eggshell enamel paint on:</u> | | | |
| 1 | On fascia and barge boards. | m2 | 5 | |
| | <u>ON PLASTER BOARD</u> | | | |
| | <u>One coat primer and two coats interior quality acrylic PVA emulsion paint.</u> | | | |
| 2 | On ceilings and cornices | m2 | 41 | |
| | <u>ON METAL SURFACES</u> | | | |
| | Carried Forward | | | R |
| | Section No. 6 Refurbishments - Girls Ablutions Bill No. 11 Paintwork | | | |

| Brought Forward | | | R |
|-----------------|---|----|----|
| | <p><u>Prepare and apply one coat alkyd based zinc chromate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint on:</u></p> | | |
| 3 | On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m2 | 16 |
| | <p><u>ON WOOD</u></p> <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats eggshell enamel or other approved on:</u></p> | | |
| 4 | On doors | m2 | 38 |
| | <p><u>Prepare and apply one coat wood primer, one universal undercoat and two coats Polyurethane Alkyd coating or other approved on:</u></p> <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u></p> <p><u>ON FLOATED PLASTER</u></p> <p><u>Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat professional gypsum and two coats "Plascon Double Velvet "paint on:</u></p> | | |
| 5 | On internal walls | m2 | 82 |
| 6 | On external walls | m2 | 16 |
| | <p><u>ON METAL</u></p> | | |
| | Carried Forward | | R |
| | <p>Section No. 6 Refurbishments - Girls Ablutions Bill No. 11 Paintwork</p> | | |

Brought Forward

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and prepare wall and apply bonding liquid, one coat plaster primer UC56 and two coats enamel paint on:

| | | | |
|---|---------------------------|----|----|
| 7 | Steel window frames | m2 | 12 |
| 8 | Pressed steel door frames | m2 | 17 |

R

Carried Forward to Summary of Section No. 6

Section No. 6
 Refurbishments - Girls Ablutions
 Bill No. 11
 Paintwork

R

SECTION SUMMARY - Refurbishments - Girls Ablutions

| Bill No | | Page No | Amount |
|---|---------------------------------------|---------|--------|
| 1 | Alterations | 206 | |
| 2 | Masonry | 208 | |
| 3 | Carpentry and Joinery | 211 | |
| 4 | Ceilings, Partitions, Access Flooring | 213 | |
| 5 | Ironmongery | 216 | |
| 6 | Metalwork | 218 | |
| 7 | Plastering | 219 | |
| 8 | Tiling | 221 | |
| 9 | Plumbing and Drainage(Provisional) | 229 | |
| 10 | Glazing | 230 | |
| 11 | Paintwork | 233 | |
| Carried to Final Summary | | | |
| Section No. 6 Refurbishments - Girls Ablutions | | | R |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 7</u></p> | | | |
| <p><u>BILL NO. 1 SOIL DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>uPVC pipes and fittings:</u></p> | | | |
| <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.</p> | | | |
| <p><u>uPVC pressure pipes and fittings:</u></p> | | | |
| <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> | | | |
| <p><u>Reducing fittings:</u></p> | | | |
| <p>Where fittings have reducing ends or branches they are described as 'reducing' and 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.</p> | | | |
| <p><u>Fixing of pipes:</u></p> | | | |
| <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage</p> | | | |
| | | | R |

Brought Forward

R

Disinfection of water pipework:

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).

Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item

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

General:

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site.

As-built drawings:

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

SABS 1200 LD

Carried Forward

R

Section No. 7
Soil Drainage & Septic Tank
Bill No. 1
Soil Drainage

| Brought Forward | | R |
|---|--|-------|
| <u>Supply and lay, handle, bed on Class B (or as specified by the Engineer) bedding, joint test and connect into manholes various sewer pipes of the following sizes and types.</u> | | |
| 1 | 160mm Class 34 uPvc pipe and excavations not exceeding 1m deep including bedding and selected fill blanket compacted to 93% MOD AASHTO density, carting away excavated material, risk of collapse, keeping trenches free of water, etc all in accordance to engineer's detail | m 158 |
| 2 | 90mm Class 4 uPvc pipe and excavations not exceeding 1m deep including bedding and selected fill blanket compacted to 93% MOD AASHTO density, carting away excavated material, risk of collapse, keeping trenches free of water, etc all in accordance to engineer's detail | m 2 |
| 3 | 90mm Class 4 uPvc pipe fixed to septic tank walls | m 2 |
| <u>Extra over for class 34 UPVC Pipe fittings:</u> | | |
| 4 | 160mm Bend | No 5 |
| 5 | 160mm Junction | No 5 |
| <u>Extra over for Class 4 uPvc pipe fittings:</u> | | |
| 6 | 90mm Bend | No 3 |
| <u>MANHOLES</u> | | |
| <u>Supply and install Manholes, catchpits, inspection chambers, grid inlets, etc complete</u> | | |
| 7 | Brick manhole size 450 x 600mm not exceeding 1 m deep internally formed of one brick sides of extra hard burnt semi-facebrick bricks in 1:3 cement mortar on and including 100 mm thick Reinforced concrete (Grade 25/20) bottom, rendered internally in 1:3 cement plaster with mass concrete benching (Grade 25/20) finished smooth with 25 mm thick 1:3 cement screed, 150 mm thick mass concrete slab (Grade 25/20) and kerb on top with inner edge rebated for and fitted with cover (elsewhere measured), including finishing all exposed surfaces of kerb with 1:2 cement plaster trowelled smooth, including excavation in earth, backfilling and compacting, formwork, holes through sides for pipes, etc | No 7 |
| Carried Forward | | R |
| Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage | | |

| Brought Forward | | | R |
|---|---|----|-----|
| <u>Gratings, covers and frames:</u> | | | |
| 8 | 450 x 450mm heavy duty cast iron double seal manhole cover and frame | No | 7 |
| 9 | Standard cast iron type two piece double seal manhole cover and frame Type 2A to opening size 560mm diameter, the frame bedded in 3:1 cement mortar and cover in tallow | No | 1 |
| <u>EARTHWORKS</u> | | | |
| <u>Excavation in earth for septic tank</u> | | | |
| 10 | Not exceeding 2m deep | m3 | 65 |
| <u>Extra over bulk excavations in earth for excavation in</u> | | | |
| 11 | Soft rock | m3 | 6 |
| 12 | Hard rock | m3 | 3 |
| <u>Excavation in earth not exceeding 2m deep for</u> | | | |
| 13 | Excavate for percolation pipe trench | m3 | 41 |
| <u>Extra over trench and hole excavations in earth for excavation in</u> | | | |
| 14 | Soft rock | m3 | 4 |
| 15 | Hard rock | m3 | 2 |
| <u>Extra over all excavations for carting away</u> | | | |
| 16 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 85 |
| <u>Risk of collapse of excavations</u> | | | |
| 17 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 162 |
| 18 | Sides of trench and hole excavations exceeding 1,5m deep | m2 | 49 |
| Carried Forward | | | R |
| Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage | | | |

| Brought Forward | | | R |
|---|--|------|------|
| <u>Keeping excavations free from water</u> | | | |
| 19 | Keeping excavations free from mud and all water other than from subterranean sources | | Item |
| <u>FILLING, ETC</u> | | | |
| <u>Selected filling obtained from the excavations and/or prescribed stock piles on site, compacted to 90% Mod AASHTO density</u> | | | |
| 20 | Backfilling to trenches, holes, etc | m3 | 20 |
| <u>Filling of imported G5 material supplied by the contractor, compacted to 98% Mod AASHTO density</u> | | | |
| 21 | Under floors, steps, pavings, etc | m3 | 4 |
| <u>Filling of imported G7 material supplied by the contractor, compacted to 95% Mod AASHTO density</u> | | | |
| 22 | Under floors, steps, pavings, etc | m3 | 4 |
| <u>CONCRETE, FORMWORK & REINFORCEMENT</u> | | | |
| <u>25MPa/19mm reinforced concrete</u> | | | |
| 23 | Septic tank bottom slab | m3 | 5 |
| 24 | Roof slab | m3 | 5 |
| 25 | Filling in cavity wall | m3 | 2 |
| <u>Concrete tests</u> | | | |
| 26 | Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional). | Sets | 2 |
| <u>High tensile steel reinforcement</u> | | | |
| 27 | Steel reinforcing in various diameter bars | t | 0.91 |
| <u>Fabric reinforcement</u> | | | |
| 28 | Type Ref 193 fabric reinforcement in concrete cavity infill | m2 | 33 |
| Carried Forward | | | R |
| Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage | | | |

| Brought Forward | | | R |
|--|--|----|----|
| 29 | Type Ref 245 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 55 |
| <p><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></p> <p><u>Smooth formwork to sides</u></p> | | | |
| 30 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 19 |
| <p><u>CONCRETE TESTING</u></p> | | | |
| 31 | Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional) | No | 3 |
| <p><u>CONCRETE SUNDRIES</u></p> <p><u>Finishing top surfaces of concrete smooth with a wood float</u></p> | | | |
| 32 | Surface beds, slabs, etc to falls | m2 | 25 |
| <p><u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u></p> <p><u>"Aquafin-IC" or equal approved cementitious waterproofing system comprising patching defects with polymer modified flexible (PMF) waterproofing slurry and three full coats PMF waterproofing slurry applied with a brush to a final dry film thickness of 2 to 3mm on:</u></p> | | | |
| 33 | On plastered brick walls | m2 | 32 |
| <p><u>BRICKWORK FOUNDATIONS (PROVISIONAL)</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u></p> | | | |
| 34 | 270mm Cavity wall formed of two 110mm brick skins including wire ties on every course and 50mm wide reinforced concrete infill (elsewhere) | m2 | 33 |
| Carried Forward | | | R |
| <p>Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage</p> | | | |

| Brought Forward | | | R |
|---|--|----|-----|
| <u>BRICKWORK SUNDRIES</u> | | | |
| <u>Reinforcement to brickwork</u> | | | |
| 35 | Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls | m | 430 |
| 36 | Hole through one brick side of chamber for large pipe and make good | No | 2 |
| <u>INTERNAL PLASTER</u> | | | |
| <u>Cement plaster on brickwork</u> | | | |
| 37 | On walls | m2 | 32 |
| <u>EXTERNAL PLASTER</u> | | | |
| <u>Cement plaster on brickwork</u> | | | |
| 38 | On walls | m2 | 36 |
| <u>SCREEDS/BENCHING</u> | | | |
| 39 | 75mm Average thick to falls and currents on septic tank bottom slab, including finishing off to a non-slip finish | m2 | 20 |
| <u>PERCOLATION PIPES</u> | | | |
| 40 | 19mm Crushed stone encasing to pipes | m3 | 18 |
| 41 | 70/150mm packed stone in seepage pit | m3 | 3 |
| 42 | Bidum U24 geofabric filter blanket wrapped around 600 x 610mm stone encasing with 100mm side and 100mm end laps, including stitching | m2 | 186 |
| 43 | 110mm perforated pipe laid to falls in stone layer works (elsewhere) as per engineer specification | m | 71 |
| 44 | Extra over perforated pipe for end cap | No | 12 |
| <u>SUNDRIES</u> | | | |
| 45 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock | m3 | 12 |
| Carried Forward | | | R |
| Section No. 7 Soil Drainage & Septic Tank Bill No. 1 Soil Drainage | | | |

| Brought Forward | | | | R |
|---------------------------------|--|----|------|---|
| 46 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock | m3 | 6 | |
| | <u>Testing</u> | | | |
| 47 | Allow for testing all soil drainage to the satisfaction of the Quantity Surveyor. All defective work is to be taken out and replaced at the Contractor's expense | | Item | |
| Carried to Final Summary | | | | R |
| Section No. 7 | | | | |
| Soil Drainage & Septic Tank | | | | |
| Bill No. 1 | | | | |
| Soil Drainage | | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 8</u></p> | | | |
| <p><u>BILL NO. 1 SITE CLEARANCE, BULK EARTHWORKS, ETC (PROVISIONAL)</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document</p> | | | |
| <p>Materials described as "Taking out and removing" and the like shall become the property of the contractor after handing over any material as may be requested by the school governing body and be removed from site and disposed of at a suitable place all done at the contractor's expense.</p> | | | |
| <p>Descriptions which include "Making good" the contractor shall allow for all costs of disconnecting and removing the said materials and preparatory work to receive new materials.</p> | | | |
| <p><u>View site</u></p> | | | |
| <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 8 Demolitions & Site Clearance Bill No. 1 Site Clearance, Bulk Earthworks ,Etc</p> | | | |
| | | | R |

| Brought Forward | | R |
|---|--|----------|
| <u>General</u> | | |
| <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> | | |
| <u>DEMOLITION, REMOVALS AND WORKS ON SITE</u> | | |
| <u>Temporary barriers, screens, etc including removal</u> | | |
| 1 | Temporary hoarding 2.1m high on gravel floor formed of suitable timber framing with corrugated sheeting fixed to one side including corners, ends, etc | m 241 |
| <u>Breaking up and removing</u> | | |
| 2 | Take up and remove 60mm thick concrete and brick paving with mortar joints on sand bedding and cart away to a dumping site located by the contractor | m2 1 872 |
| 3 | Take down and remove existing brick retaining wall, approximately 1000mm high including removing foundations, backfilling and carting away all materials to a dumping site to be located by the contractor | m 32 |
| <u>Taking down and removing</u> | | |
| 4 | 150mm Thick mesh reinforced concrete surface beds, paving, etc including cutting-off, removing foundations, backfilling, compacting and carting away all materials to a dumping site located by the contractor | m2 15 |
| 5 | Steel water tank stands approximately 1350 x 1787 x 4000mm high including carefully dismantling structural steel work and handing it over to the school, removing water tank and hand over to the schools, grubbing up foundations and/or bases, backfilling, compacting and carting away all unwanted materials to a dumping site located by the contractor | No 1 |
| Carried Forward | | R |
| <p>Section No. 8 Demolitions & Site Clearance Bill No. 1 Site Clearance, Bulk Earthworks ,Etc</p> | | |

| Brought Forward | | | R |
|---|--|----|---|
| 6 | Steel water tank stands approximately 1350 x 1787 x 6000mm high including carefully dismantling structural steel work and handing it over to the school, removing water tank and hand over to the schools, grubbing up foundations and/or bases, backfilling, compacting and carting away all unwanted materials to a dumping site located by the contractor | No | 1 |
| <u>Demolishing and removing</u> | | | |
| 7 | Carefully demolish existing pit toilets complete size approximately 15 991 x 2206 x 3000mm high at eaves consisting of brickwork with corrugated iron roof sheeting on roof trusses including grubbing up of concrete floors, concrete foundations, etc including backfilling pit, where foundations has been removed, cart away all material which is not required by the school governing committee to an approved suitable dumping site about 5km away from building site and handover all materials from demolition works in good order. All to the approval of the principal agent. | No | 1 |
| 8 | Carefully demolish existing kitchen septic complete size approximately 3273 x 2019 x 1500mm deep consisting of brickwork , concrete,including grubbing up of concrete floors, concrete foundations, etc and backfilling where foundations has been removed, cart away all material which is not required by the school governing committee to an approved suitable dumping site about 5km away from building site and handover all materials from demolition works in good order. All to the approval of the principal agent. | No | 1 |
| 9 | Carefully demolish existing ablutions septic complete size approximately 761 x 2305 x 1800mm consisting of brickwork, concrete, including grubbing up of concrete floors, concrete foundations, etc and backfilling where septic tank and foundations has been removed, cart away all material which is not required by the school governing committee to an approved suitable dumping site about 5km away from building site and handover all materials from demolition works in good order. All to the approval of the principal agent. | No | 1 |
| 10 | Carefully demolish existing ablutions 200mm thick concrete ramp approximately 1722 x 5630mm flat on plan including removing foundations, backfilling and carting away all materials to a dumping site to be located by the contractor | No | 1 |
| Carried Forward | | | R |
| Section No. 8 Demolitions & Site Clearance Bill No. 1 Site Clearance, Bulk Earthworks ,Etc | | | |

| Brought Forward | | | R |
|---|--|----|-------|
| 11 | Carefully demolish existing ablutions 200mm thick concrete ramp approximately 1750 x 5675mm including removing foundations, backfilling and carting away all materials to a dumping site to be located by the contractor | No | 1 |
| 12 | Carefully demolish existing ablutions concrete steps approximately 900 x 2500mm including removing foundations, backfilling and carting away all materials to a dumping site to be located by the contractor | No | 1 |
| 13 | Carefully demolish existing ablutions concrete steps approximately 950 x 1543mm including removing foundations, backfilling and carting away all materials to a dumping site to be located by the contractor | No | 1 |
| 14 | Carefully demolish existing ablutions granolithic screed approximately 1467 x 10 300 x 85mm thick including backfilling and carting away all materials to a dumping site to be located by the contractor | No | 1 |
| <u>SITE CLEARANCE:</u> | | | |
| <u>Site clearance etc:</u> | | | |
| 15 | Allow for clearing of site of all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc, level site to be built upon and carting away any debris to a site to be found by the contractor. | m2 | 5 199 |
| 16 | Strip off topsoil to an average depth of 150mm over areas of roads, buildings etc and wheel and deposit in spoil heaps on site where directed for re-use | m2 | 5 199 |
| <u>REMOVAL OF TREES ETC</u> | | | |
| <u>Cutting down and removing, grubbing up roots, filling in holes and compacting to 93% Mod AASHTO density</u> | | | |
| 17 | Tree with trunk exceeding 1500m girth and not exceeding 2000mm girth | No | 8 |
| Carried to Final Summary | | | R |
| Section No. 8 Demolitions & Site Clearance Bill No. 1 Site Clearance, Bulk Earthworks ,Etc | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 9</u></p> | | | |
| <p><u>BILL NO. 1 WATER SUPPLIES (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>NOTE:</u></p> | | | |
| <p>Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item</p> | | | |
| <p><u>Disinfection of water pipework:</u></p> | | | |
| <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 9 Water Supply Bill No. 1 Water supplies</p> | | | |
| | | | R |

| Brought Forward | | | R |
|---|---|---------------------------------|---------|
| <u>Laying, backfilling, bedding, etc of pipes</u> | | | |
| Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions | | | |
| Where no manufacturer's 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 C bedding | | | |
| <u>General:</u> | | | |
| Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site. | | | |
| <u>As-built drawings:</u> | | | |
| Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere). | | | |
| <u>Galvanised steel pipes</u> | | | |
| 1 | | 20mm GMS pipes cast in concrete | m 5 |
| <u>Extra over galvanised mild steel water supply pipes for fittings</u> | | | |
| 2 | | 20mm fittings | No 4 |
| Carried Forward | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | |

| Brought Forward | | | R |
|--|---|----|-----|
| <u>HDPE Class 10 water pipes</u> | | | |
| 3 | 25mm Pipes laid in and including trenches not exceeding 1m deep including selected granular material bedding cradle, selected side fill, backfilling with selected material from excavations, excavation in earth and carting away surplus excavated material | m | 401 |
| <u>Extra over HDPE pipes for "Plasson" or other approved fittings</u> | | | |
| 4 | 25mm fittings | No | 20 |
| <u>TAPS, VALVES, ETC</u> | | | |
| <u>Taps, Valves, etc. including couplings to pipes and fittings</u> | | | |
| 5 | 25mm fullway isolating ball valve | No | 7 |
| <u>Drinking fountain</u> | | | |
| 6 | Drinking fountain 1500mm High above NGL drinking fountain formed of 445mm diameter concrete pipe fixed to concrete footing 400mm below ground, pipe filled with 25Mpa concrete, with stainless steel cobra metering bib tap) with non hold open feature and flow controller (tap elsewhere measured) fixed to concrete pipe at 900mm high (Refer to drinking fountain detail) | No | 4 |
| <u>Brass</u> | | | |
| 7 | 20mm KM200 "CP" Cobra Metering brass tap with non-hold open feature and flow controller. | No | 4 |
| Carried Forward | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | |

| Brought Forward | | | R |
|---|---|----|----|
| <u>Valve box chambers, etc.</u> | | | |
| 8 | Valve Chamber size 510 x 440mm not exceeding 1000mm deep internally formed of one brick sides of extra hard burnt bricks in 1:3 cement mortar on and including 150mm thick mass concrete (Grade 20/19) bottom projecting 50 mm beyond external face, rendered internally in 1:3 cement plaster with mass concrete benching (Grade 20/19) finished smooth with 25 mm thick 1:3 cement screed, 150 mm thick mass concrete (Grade 20/19) kerb on top with inner edge rebated for and fitted with and including cast iron double seal cover and frame type 8A in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in tallow including finishing all exposed surfaces of kerb with 1:2 cement plaster trowelled smooth, including excavation in earth, backfilling and compacting, formwork, holes through sides for pipes, etc as per Engineer's drawing ST-102 | No | 7 |
| <u>SUNDRIES</u> | | | |
| 9 | 25Mpa unreinforced concrete in thrust or anchor blocks in trenches at bends, tees, etc, including extra excavation, formwork, etc | m3 | 1 |
| 10 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock | m3 | 26 |
| 11 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock | m3 | 13 |
| <u>THE FOLLOWING IN WATER TANK STORAGE</u> | | | |
| <u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u> | | | |
| <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 12 | Holes | m3 | 12 |
| <u>Extra over trench and hole excavations in earth for excavation in</u> | | | |
| 13 | Soft rock | m3 | 1 |
| 14 | Hard rock | m3 | 1 |
| Carried Forward | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | |

| Brought Forward | | | R |
|--|--|----|------|
| <u>Extra over all excavations for carting away</u> | | | |
| 15 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 8 |
| <u>Risk of collapse of excavations</u> | | | |
| 16 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 31 |
| <u>Keeping excavations free from water</u> | | | |
| 17 | Keeping excavations free from mud and all water other than from subterranean sources | | Item |
| <u>FILLING, ETC</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u> | | | |
| 18 | Backfilling to trenches, holes, etc | m3 | 2 |
| <u>PROTECTION AGAINST TERMITES</u> | | | |
| <u>Soil insecticide</u> | | | |
| 19 | To bottoms and sides of trenches etc | m2 | 42 |
| <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| <u>10MPa/19mm concrete</u> | | | |
| 20 | Surface blinding under footings and bases (Provisional) | m3 | 1 |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| Carried Forward | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | |

| Brought Forward | | | R |
|-----------------|---|----|------|
| | <u>25MPa/19mm concrete</u> | | |
| 21 | Bases(Provisional) | m3 | 6 |
| | <u>30MPa/19mm concrete</u> | | |
| 22 | Columns in foundations (Provisional) | m3 | 1 |
| | <u>CONCRETE TESTING</u> | | |
| 23 | Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional) | No | 1 |
| | <u>CONCRETE SUNDRIES</u> | | |
| | <u>25Mpa Non-Shrink grout as per Engineer specification under bases</u> | | |
| 24 | Bedding approximately 50mm thick under 500 x 500mm base plate including chamfered edges all round | m3 | 0.1 |
| | <u>REINFORCEMENT(PROVISIONAL)</u> | | |
| | <u>Mild tensile steel reinforcement to structural concrete work</u> | | |
| 25 | Steel reinforcing in various Diameter bars | t | 0.49 |
| | <u>Fabric reinforcement</u> | | |
| 26 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 0.4 |
| | <u>STEEL COLUMNS AND BEAMS</u> | | |
| | <u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u> | | |
| 27 | 150 x 150 x 10mm x 23kg/m equal angle column including base plates, connectors, etc | t | 0.86 |
| | <u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel</u> | | |
| 28 | 305 x 102 x 24.5mm x 24.8kg/m I-Section Beam including gusset plates, connectors, etc welded to columns (columns elsewhere) | t | 0.64 |
| | Carried Forward | | R |
| | Section No. 9 Water Supply Bill No. 1 Water supplies | | |

| Brought Forward | | | R |
|--|--|---|------|
| 29 | 300 x 100 x 46kg/m PFC support beams to stands welded to columns including gusset plates, end plates, cleats, connectors, bolts, etc | t | 0.48 |
| <u>STEEL PURLINS, GIRTS, BRACING, ETC</u> | | | |
| Tenderers are referred to the following Engineer's Structural Steelwork Drawings accompanying these Bills of Quantities for tender purposes: | | | |
| Roof-Sections-001 Bottom-Chord-Bracing-Layout-001 Roof-Top-Chord-Bracing-Layout--001 Roof-Purlin-Layout-001 | | | |
| <u>Welded bracing etc with flat section connection plates, cleats, bolted to steel</u> | | | |
| 30 | 50 x 50 x 5mm x 3.770kg/m equal angle bracing to beams including cast-in plates, connectors, bolts,etc | t | 0.09 |
| 31 | 60 x 60 x 6mm x 5.420kg/m equal angle bracing to columns including cast-in plates, connectors, bolts,etc | t | 0.07 |
| 32 | 60 x 60 x 6mm x 5.420kg/m equal angle tie to columns including cast-in plates, connectors, bolts,etc | t | 0.01 |
| 33 | 80 x 80 x 6mm x 7.340kg/m equal angle bracing to columns including cast-in plates, connectors, bolts,etc | t | 0.41 |
| 34 | 90 x 90 x 8mm x 10.9kg/m equal angle bracing to columns including cast-in plates, connectors, bolts,etc | t | 0.31 |
| <u>STEEL STAIRS, BALUSTRADING, HANDRAILS, CAT LADDERS, FLOORING, ETC</u> | | | |
| Tenderers are referred to the following Engineer's Structural Steelwork Drawings accompanying these Bills of Quantities for tender purposes: | | | |
| Steel-Staircase-001 Catladder-001 | | | |
| Carried Forward | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | |

| Brought Forward | | | | R |
|--|--|----|------|---|
| <u>Welded and bolted suspended floor and stairs including all connection plates, bolts, etc complete</u> | | | | |
| 35 | Welded cat ladder 520mm wide and 13420mm high overall, formed of 120 x 55 x 13mm flat section stringers and 20mm diameter rungs at not exceeding 250mm centres, including flat and angle section connections bolted to brickwork or concrete (bolts elsewhere) | t | 0.61 | |
| <u>BOLTS, FASTENERS, ETC</u> | | | | |
| <u>Galvanised bolts, anchors, etc:</u> | | | | |
| 36 | M20 x 475mm long chemical anchor bolts including nuts and washers with one end welded to plate including core drilling, embedding into top of concrete, epoxy grout, etc | No | 32 | |
| <u>ON METAL SURFACES</u> | | | | |
| <u>Prepare and apply one coat alkyd based zinc phosphate primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on steel</u> | | | | |
| 37 | On structural steel (various size members) | m2 | 99 | |
| <u>WATER TANK</u> | | | | |
| <u>Portable water tanks:</u> | | | | |
| 38 | Supply and install approved elevated galvanised steel portable water square tank overall size 3660 x 3660 x 3660mm (50 kilolitres capacity) high including hoisting tank on to a 9m high elevated steel tank (tank stand elsewhere measured) complete in strict accordance with manufacturer's instruction and Engineers detail. (as per Engineer's Drawing 1030K-04D04) | No | 1 | |
| <u>Testing</u> | | | | |
| 39 | Allow for testing water supplies system | | Item | |
| Carried to Final Summary | | | | R |
| Section No. 9 Water Supply Bill No. 1 Water supplies | | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION NO. 10</u></p> | | | |
| <p><u>BILL NO. 1 STORMWATER DRAINAGE (PROVISIONAL)</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Concrete pipes:</u></p> | | | |
| <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> | | | |
| <p><u>uPVC pipes and fittings:</u></p> | | | |
| <p>Stormwater and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.</p> | | | |
| <p><u>uPVC pressure pipes and fittings:</u></p> | | | |
| <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> | | | |
| <p><u>Reducing fittings:</u></p> | | | |
| <p>Where fittings have reducing ends or branches they are described as 'reducing' and 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.</p> | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 10 Stormwater Drainage Bill No. 1 Stomwater Drainage</p> | | | |
| | | | R |

Brought Forward

R

Fixing of pipes:

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

Disinfection of water pipework:

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).

Laying, backfilling, bedding, etc., of pipes:

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

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

General:

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site.

As-built drawings:

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

THE FOLLOWING IN STORM WATER SURFACE DRAINS

Carried Forward

R

Section No. 10
Stormwater Drainage
Bill No. 1
Stomwater Drainage

| Brought Forward | | | R |
|--|--|----|----|
| <u>EXCAVATION, ETC</u> | | | |
| <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Reduce levels under surface beds | m3 | 6 |
| <u>Extra over all excavations for carting away:</u> | | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 6 |
| <u>EARTH FILLING, ETC.</u> | | | |
| <u>Compaction of surfaces:</u> | | | |
| 3 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density. | m2 | 40 |
| <u>SOIL POISONING</u> | | | |
| <u>Approved registered termite soil poisoning material in accordance with SABS 0124 - 1977 mixed with water and applied at a rate of not less than 5 litres of solution per square metre. The concentration of the solution shall be in strict accordance with the manufacturer's instructions and to the approval of the Representative/Agent.</u> | | | |
| 4 | Under floors including any preparation, levelling, etc. | m2 | 40 |
| <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| <u>25MPa/19mm concrete</u> | | | |
| 5 | 1500 x 150 x 100mm Thick Concrete V-channel drain with joint at maximum 2000mm centres, to engineers details | m3 | 6 |
| <u>SUNDRIES</u> | | | |
| <u>Finishing top surfaces of concrete smooth with a wood float</u> | | | |
| 6 | On drainage channel to falls | m2 | 40 |
| Carried Forward | | | R |
| Section No. 10 Stormwater Drainage Bill No. 1 Stomwater Drainage | | | |

Brought Forward

R

MOVEMENT JOINTS

Isolation joints with 10mm "Masonite" or equally approved bitumen impregnated insulation board between horizontal and/or vertical concrete and brick surfaces including 10 x 10mm polysulphide sealant:

7 10mm Joints not exceeding 300mm high m 27

Joint forming material in movement joints (Provisional)

8 10mm Fibre board built in horizontally between brick and concrete not exceeding 300mm wide. m 12

STEEL REINFORCEMENT (PROVISIONAL)

Mesh reinforcement

9 Type 193 fabric reinforcement in concrete surface beds, slabs, etc m2 40

JOINT SEALANTS, ETC

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

10 20 x 10mm In expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional) m 39

Carried to Final Summary

R

Section No. 10
Stormwater Drainage
Bill No. 1
Stomwater Drainage

| Item No | <u>SECTION NO. 11</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 1 WALKWAYS ,PAVING AND RAMPS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN PAVING</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Reduce levels under walkways | m3 | 343 | |
| | Carried Forward | | | R |
| | Section No. 11 Walkways & Assembly Bill No. 1 Assembly Area, Walkways, Ramps, Etc | | | |

| Brought Forward | | | R |
|--|---|----|-------|
| <u>Extra over all excavations for carting away</u> | | | |
| 2 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 343 |
| <u>Walkways bed preparation</u> | | | |
| 3 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 2 289 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | | |
| 4 | Under floors, etc | m3 | 343 |
| <u>60mm thick 25MPa precast concrete interlocking block paving blocks in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u> | | | |
| 5 | Paving to walkways etc to falls | m2 | 2 289 |
| <u>Approved registered termite soil poisoning material in accordance with SABS 0124 - 1977 mixed with water and applied at a rate of not less than 5 litres of solution per square metre. The concentration of the solution shall be in strict accordance with the manufacturer's instructions and to the approval of the Representative/Agent.</u> | | | |
| 6 | Under paving etc | m2 | 2 289 |
| <u>25MPa/19mm reinforced concrete</u> | | | |
| 7 | 200 x 200mm cast in-situ edge beam including excavation, backfilling, formwork,etc | m | 373 |
| <u>THE FOLLOWING IN RAMPS</u> | | | |
| <u>EXCAVATION</u> | | | |
| Carried Forward | | | R |
| Section No. 11 Walkways & Assembly Bill No. 1 Assembly Area, Walkways, Ramps, Etc | | | |

| Brought Forward | | | R |
|---|--|----|------|
| <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 8 | Reduce levels under surface beds | m3 | 5 |
| <u>Extra over all excavations for carting away</u> | | | |
| 9 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 5 |
| <u>Keeping excavations free from water</u> | | | |
| 10 | Keeping excavations free from mud and all water other than from subterranean sources | | Item |
| <u>FILLING, ETC</u> | | | |
| Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved | | | |
| When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally | | | |
| <u>Surface bed preparation</u> | | | |
| 11 | Rip and recompact the insitu layer to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content | m2 | 32 |
| <u>Subbase of C4 (3% cement stabilised G5) stabilised material in accordance with SABS 1200, CBR natural material > 45, stabilised to attain 1.50MPa UCS and compacted to 97% Mod ASSHTO density in 150mm layers</u> | | | |
| 12 | Under floors, etc | m3 | 18 |
| <u>Compaction of surfaces</u> | | | |
| 13 | 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 | 32 |
| <u>PROTECTION AGAINST TERMITES</u> | | | |
| Carried Forward | | | R |
| Section No. 11 Walkways & Assembly Bill No. 1 Assembly Area, Walkways, Ramps, Etc | | | |

| Brought Forward | | | R |
|--|--|----|----|
| | <u>Soil insecticide</u> | | |
| 14 | Under floors including any preparation, levelling, etc. | m2 | 32 |
| | <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| | <u>25MPa/19mm concrete</u> | | |
| 15 | Ramps including landings, beams and inverted beams | m3 | 3 |
| | <u>CONCRETE SUNDRIES</u> | | |
| | <u>Finishing top surfaces of concrete smooth with a wood float</u> | | |
| 16 | Surface beds, slabs, etc to falls | m2 | 3 |
| | <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> | | |
| | <u>Smooth formwork to sides</u> | | |
| 17 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 21 |
| | <u>Fabric reinforcement</u> | | |
| 18 | Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 32 |
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | |
| | <u>One layer of 250 micron smooth USB green polyolefin waterproof sheeting sealed at laps with pressure sensitive tape complying with SANS 952 type C</u> | | |
| 19 | Under surface beds | m2 | 32 |
| Carried to Final Summary | | | R |
| Section No. 11 Walkways & Assembly Bill No. 1 Assembly Area, Walkways, Ramps, Etc | | | |

| Item No | <u>SECTION NO. 12</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 1 RETAINING WALLS (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>NOTE:</u> | | | |
| | Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item | | | |
| | <u>Testing of material and filling</u> | | | |
| | Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series | | | |
| | <u>Precast concrete block road surfacing</u> | | | |
| | Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications | | | |
| | Clean sand shall be swept into joints between roadstones at completion where specified by the architect or engineer | | | |
| | <u>THE FOLLOWING IN RETAINING WALLS</u> | | | |
| | <u>EXCAVATION, ETC</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep for:</u> | | | |
| 1 | Trenches. | m3 | 15 | |
| | Carried Forward | | | R |
| | Section No. 12 Retaining Walls Bill No. 1 Retaining Walls, Etc | | | |

| Brought Forward | | | R |
|---|--|------|------|
| <u>Extra over trench and hole excavations in earth for excavation in:</u> | | | |
| 2 | Soft rock. | m3 | 1 |
| 3 | Hard rock. | m3 | 1 |
| <u>Extra over all excavations for carting away:</u> | | | |
| 4 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 10 |
| <u>Risk of collapse of excavations:</u> | | | |
| 5 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 33 |
| <u>Keeping excavations free of water:</u> | | | |
| 6 | Keeping excavations free from mud and all water including subterranean sources. | | Item |
| <u>EARTH FILLING, ETC.</u> | | | |
| <u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u> | | | |
| 7 | Backfilling to trenches, holes, etc. | m3 | 5 |
| <u>SOIL POISONING</u> | | | |
| <u>Soil insecticide</u> | | | |
| 8 | To bottoms and sides of trenches etc | m2 | 56 |
| <u>CONCRETE, FORMWORK & REINFORCEMENT</u> | | | |
| <u>25MPa/19mm Reinforced concrete</u> | | | |
| 9 | Filling in cavity wall | m3 | 6 |
| 10 | Footing | m3 | 7 |
| <u>Concrete tests</u> | | | |
| 11 | Prepare set of three concrete cubes each size 150 x 150 x 150 mm and deliver to an approved laboratory for testing and pay all charges. (Provisional). | Sets | 1 |
| Carried Forward | | | R |
| Section No. 12 Retaining Walls Bill No. 1 Retaining Walls, Etc | | | |

| Brought Forward | | | R |
|---|--|----|------|
| <u>STEEL REINFORCEMENT (PROVISIONAL)</u> | | | |
| <u>Mild tensile reinforcement.</u> | | | |
| 12 | Steel reinforcing in various Diameter bars | t | 0.55 |
| <u>MASONRY</u> | | | |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u> | | | |
| 13 | 330mm Cavity retaining wall formed of two 110mm brick skins including wire ties on every course and 110mm wide reinforced concrete infill (elsewhere) in foundations | m2 | 9 |
| 14 | 330mm Cavity retaining wall formed of two 110mm brick skins including wire ties on every course and 110mm wide reinforced concrete infill (elsewhere) | m2 | 32 |
| <u>BRICKWORK SUNDRIES</u> | | | |
| <u>Reinforcement to brickwork</u> | | | |
| 15 | Approved high tensile steel brick reinforcement 75 mm wide well lapped at all angles and passings and built into brick walls | m | 333 |
| 16 | Ditto in foundations (Provisional) | m | 287 |
| <u>FACE BRICKWORK</u> | | | |
| <u>Face bricks (Allow a P.C. Amount of R5 000.00 per thousand supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u> | | | |
| 17 | Extra over brickwork for face brickwork externally (Provisional). | m2 | 32 |
| Carried Forward | | | R |
| Section No. 12 Retaining Walls Bill No. 1 Retaining Walls, Etc | | | |

Brought Forward

Brick-on-edge header and roller course copings, sills, etc with recessed joints on all exposed faces:

18 330mm wide header course to top of cavity brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.(Provisional)

m

25

R

Carried to Final Summary

Section No. 12
Retaining Walls
Bill No. 1
Retaining Walls, Etc

R

| Item No | <u>SECTION NO. 13</u> | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 1 FENCING (PROVISIONAL)</u> | | | |
| | <u>PREAMBLES</u> | | | |
| | Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | 1. Fence to be pre-coated | | | |
| | 2. Rates for fencing is deemed to include all necessary excavations, concrete bases, cart-away, backfilling, etc as indicated on the item descriptions | | | |
| | <u>Clearing of site:</u> | | | |
| 1 | Allow for clearing site for the width of 1,200 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling (provisional) | m | 642 | |
| | <u>Steel palisade fence</u> | | | |
| 2 | Steel palisade fence 1800mm high with pales formed of 30 x 30 x 2.0mm angle iron paling 1.8m high with devil fork effect on top and bottom with the dove tail fixed to 2,4m high posts size 76 x 76 x 2mm square tubing with closing pyramid caps on top posts at 3m centres min, with 40 x 40 x 2mm angle iron bearers placed 300mm from top paling and 300mm from bottom paling welded flash with the back of the posts installed complete including excavations, backfilling, cartaway, concrete bases, etc all in accordance to manufacturer's instruction | m | 13 | |
| | <u>Gates</u> | | | |
| 3 | Pedestrian swing gate size 1480 x 1800mm high, gate fitted with hinges, catch, stops, etc complete as per manufacturers specifications | No | 2 | |
| | Carried Forward | | | R |
| | Section No. 13 Fencing Bill No. 1 Fencing | | | |

Brought Forward

R

PAINTWORK, ETC TO NEW WORK

ON METAL SURFACES

Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:

| | | | |
|---|----------------------|----|----|
| 4 | Steel palisade fence | m2 | 48 |
| 5 | Steel gates | m2 | 11 |

PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

ON METAL

Remove any loose and peeling paint back to a firm surface by scraping, sanding or other suitable means including repairing all hairline cracks. Feather the surfaces with 100 grit sandpaper and ensure surfaces is dust free. Remove surface contaminants using approved sugar soap solution. For stubborn contaminants use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound and Prepare and apply one coat metal primer , one coat merit universal undercoat and two coats approved high gloss enamel paint on:

| | | | |
|---|----------------------|----|-------|
| 6 | Steel palisade fence | m2 | 2 313 |
|---|----------------------|----|-------|

Carried to Final Summary

R

Section No. 13
Fencing
Bill No. 1
Fencing

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION NO. 14</u></p> | | | |
| <p><u>BILL NO. 1 PROVISIONAL SUMS</u></p> | | | |
| <p><u>PREAMBLES</u></p> | | | |
| <p>Tenderers are referred to the relevant clauses in the Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors and Supplementary Preambles for further description and amplification of work in this section</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Attendance upon Selected Sub-contractors</u></p> | | | |
| <p>The item "Allow for attendance" following each provisional sum is for costs incurred by the Contractor in providing free of charge to the Sub-contractor the following :</p> | | | |
| <ol style="list-style-type: none"> 1. Services as set out in clause B10 of the preliminaries 2. Hoisting of Selected Sub-contractor's material where required 3. Casing and protection of the Selected Sub-contractor's work after completion thereof 4. Making good in all trades and final cleaning down on completion only 5. Every facility to enable the Selected Sub-contractor to carry out his work in a workmanlike manner in proper order and sequence 6. Reasonable site security measures 7. Programming and co-ordination of the works including obtaining all necessary particulars of Selected Sub-contractor's work timeously | | | |
| <p>Carried Forward</p> | | | |
| <p>Section No. 14 Provisional Sums Bill No. 1 Provisional Sums</p> | | | |
| | | | R |

Brought Forward

R

Unless a specific percentage mark up for attendance is indicated in the rate column, the amounts priced by the contractor for attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub-contract varies significantly.

Loss of profit:

Should any of the specialist items listed in this Bill be substantially reduced or omitted, no claim for "loss of profit" on any of the specialists listed, will be considered

Special attendance on nominated/selected subcontractors

Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, crange and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements

Number of Selected Sub-contracts

The Contractor's attention is drawn to the fact that the indicated individual provisional sums may consist of a number of Selected Sub-contracts, all of which will be executed by separate Selected Sub-contractors. The Contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained

BOREHOLE WATER TREATMENT

- 1 Provide the amount of R200 000.00 (Two Hundred Thousand Rand) for supply, deliver and installation of borehole water treatment plant by specialists
- 2 Profit on above item.
- 3 Attendance on ditto.

Item

200 000.00

%

%

Carried Forward

R

Section No. 14
Provisional Sums
Bill No. 1
Provisional Sums

Brought Forward

EQUIPPING EXISTING BOREHOLES

- 4 Provide the amount of R200 000.00 (Two Hundred Thousand Rand) for Equipping existing boreholes by Specialist complete
- 5 Profit on above item
- 6 Attendance on ditto

| Item | R |
|------|------------|
| | 200 000.00 |
| | % |
| | % |

ELECTRICAL INTSTALLATION

- 7 Provide the amount of R50 000.00 (Fifty Thousand Rand) for Electrical installations by Specialist complete
- 8 Profit on above item
- 9 Attendance on ditto

| Item | R |
|------|-----------|
| | 50 000.00 |
| | % |
| | % |

Carried to Final Summary

R

Section No. 14
Provisional Sums
Bill No. 1
Provisional Sums

| Section No | FINAL SUMMARY | Page No | Amount |
|------------|--|---------|--------|
| 1 | Preliminaries & Generals | 30 | |
| 2 | SFD4+SM2+2UR - Educators Ablutions | 72 | |
| 3 | GRD7 - Grade R Ablutions | 114 | |
| 4 | FD4-Girls Ablutions | 157 | |
| 5 | Refurbishments - Boys Ablutions | 200 | |
| 6 | Refurbishments - Girls Ablutions | 234 | |
| 7 | Soil Drainage & Septic Tank | 242 | |
| 8 | Demolitions & Site Clearance | 246 | |
| 9 | Water Supply | 254 | |
| 10 | Stormwater Drainage | 258 | |
| 11 | Walkways & Assembly | 262 | |
| 12 | Retaining Walls | 266 | |
| 13 | Fencing | 268 | |
| 14 | Provisional Sums | 271 | |
| | <u>Sub Total (A)</u> | | R |
| | CONTINGENCIES | | |
| | Provide 10% (TEN PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required | | |
| | <u>Sub Total (B)</u> | | R |
| | Value Added Tax | | R |
| | Carried to Form of Tender | | R |