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| | <p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>NOTES</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, 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> | | | |
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| | <p>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.</p> <p>8. Where any item is not relevant to this specific contract, such item is marked N/</p> <p>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.</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>1 Definitions and interpretation (clause 1)</p> <p style="text-align: right;">Item</p> <p><u>OBJECTIVE AND PREPARATION</u></p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F..... V T</p> <p style="text-align: right;">Item</p> <p>3 Documents (clause 3)</p> <p>Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'</p> <p>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'.</p> <p>F..... V T</p> <p style="text-align: right;">Item</p> | | | |
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| 4 | Design responsibility (clause 4) F..... V T | Item | | |
| 5 | Employer's agents (clause 5) F..... V T | Item | | |
| 6 | Site representative (clause 6) F..... V T | Item | | |
| 7 | Compliance with regulations (clause 7) Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works 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 principal agent shall, on behalf of the employer, issue such health and safety specification and 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, provided such provisions are reasonable in terms of the act and the regulations. F..... V T | Item | | |
| 8 | Works risk (clause 8) F..... V T | Item | | |
| 9 | Indemnities (clause 9) Clause 9.1.1 is deleted and substituted with: 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'. F..... V T | Item | | |
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| 10 | Works insurances (clause 10) F..... V T | Item | | |
| 11 | Liability insurances (clause 11) F..... V T | Item | | |
| 12 | Effecting insurance (clause 12) F..... V T | Item | | |
| 13 | State Provisions (Clause 13). F..... V T | Item | | |
| 14 | Security (clause 14) F..... V T | Item | | |
| | <u>EXECUTION</u> | | | |
| 15 | Preparation for and execution of the works (Clause 15). F..... V T | Item | | |
| 16 | Access to the works (Clause 16). F..... V T | Item | | |
| 17 | Contract instructions (Clause 17). F..... V T | Item | | |
| 18 | Setting out of the works (Clause 18). 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. F..... V T | Item | | |
| 19 | Assignment (Clause 19). F..... V T | Item | | |
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| 20 | Nominated subcontractors (Clause 20). F..... V T | Item | | |
| 21 | Selected subcontractors (Clause 21). F..... V T | Item | | |
| 22 | Employer's Direct contractors (Clause 22). F..... V T | Item | | |
| 23 | Contractor's Domestic subcontractors (Clause 23). F..... V T | Item | | |
| <u>COMPLETION</u> | | | | |
| 24 | Practical completion (Clause 24). F..... V T | Item | | |
| 25 | Works completion (Clause 25). F..... V T | Item | | |
| 26 | Final completion (Clause 26). F..... V T | Item | | |
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| 27 | <p>Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses:</p> <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> <p>F..... V T</p> | Item | | |
| 28 | <p>Sectional completion (Clause 28).</p> <p>F..... V T</p> | Item | | |
| 29 | <p>Revision of date for practical completion (Clause 29).</p> <p>F..... V T</p> | Item | | |
| 30 | <p>Penalty for non-completion (Clause 30).</p> <p>F..... V T</p> | Item | | |
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| | <u>PAYMENT</u> | | | |
| 31 | <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 and clause 31.6.5 is therefore not applicable.</p> <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>Clause 31.9 is amended as follows:</p> <p>'Payment shall be subject to the Employer giving the Contractor a Tax Invoice for the amount due. The Employer undertakes to ensure compliance with the administrative requirements of Sections 20 (2) and 21 (4) of the Value Added Tax Act (Act 89 of 1991). The Contractor agrees to the adoption of the self invoicing procedures and undertakes not to issue any tax invoices, debit or credit notes in respect of any transaction included in the Tax Invoices issued by the Employer. The above clauses shall constitute a written agreement between the parties as required in terms of the Value Added Tax Act (Act 89 of 1991).'</p> <p>F..... V T</p> | | | |
| 32 | <p>Adjustment to the contract value (Clause 32).</p> <p>F..... V T</p> | Item | | |
| 33 | <p>Recovery of expense and loss (Clause 33).</p> <p>F..... V T</p> | Item | | |
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| 34 | Final account and final payment (Clause 34). Clause 34.1 is amended as follows: The principal agent shall prepare a final account for submission to the contractor within one hundred and eighty (180) calendar days." F..... V T | Item | | |
| 35 | Payment to other parties (Clause 35). F..... V T | Item | | |
| <u>CANCELLATION</u> | | | | |
| 36 | Cancellation by Employer - Contractor's default (Clause 36). F..... V T | Item | | |
| 37 | Cancellation by Employer - Loss and damage (Clause 37). F..... V T | Item | | |
| 38 | Cancellation by Contractor - Employer's default (Clause 38). F..... V T | Item | | |
| 39 | Cancellation - Cessation of the works (Clause 39). F..... V T | Item | | |
| <u>DISPUTE</u> | | | | |
| 40 | Dispute Settlement (Clause 40) | Item | | |
| <u>SUBSTITUTE PROVISIONS</u> | | | | |
| 41 | State clauses (Clause 41). F..... V T | Item | | |
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| 42 | <p><u>CONTRACT VARIABLES</u></p> <p>The Schedule: Pre-Tender information (Clause 42). F..... V T</p> | Item | | |
| | <p><u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u></p> <p>Employer: Development Bank of Southern Africa Postal Address: Telephone: : Facsimile: n/a Physical address:</p> | | | |
| | <p><u>CONTRACT DETAILS (Clause 42.2)</u></p> <p><u>Clause 42.2.1</u> Works Description: - see brief description under the Notes to Tenderers</p> <p><u>Clause 42.2.2</u> Site Description: site, co-ordinates:</p> <p><u>Clause 42.2.3</u> Work or Installations by Others: Nil</p> <p><u>Clause 42.2.4</u> 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><u>Clause 42.2.5</u> Date on which possession of the site is intended to be given on :-</p> <p>5 working days from the date of the letter of appointment to the Contractor.</p> | | | |
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| <p><u>Clause 42.2.6</u></p> <p>Period for the commencement of the works after the contractor takes possession of the site :- 2 Working days.</p> <p>Completion in Sections are required : NO</p> | | | |
| <p><u>Clause 42.2.7</u></p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> <p>..... working days after commencement</p> <p>Penalty amount R..... per calendar day</p> | | | |
| <p><u>Clause 42.2.8</u></p> <p>Intended dates of practical completion and the penalties per calendar day for the works in sections : N/A</p> | | | |
| <p><u>Clause 42.2.9</u></p> <p>The law applicable to this agreement shall be that of - South Africa.</p> | | | |
| <p><u>INSURANCES</u></p> | | | |
| <p><u>Clause 42.3.1</u></p> <p>Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10% With a deductible of : to be determined by the Contractor but not greater than the maximum of R50,000.00 as stipulated by the Employer</p> | | | |
| <p><u>Clause 42.3.2</u></p> <p>Supplementary insurance is required : YES SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 10% (with a deductible to be determined by the Insurance company issuing the policy).</p> | | | |
| <p><u>Clause 42.3.3</u></p> <p>Public liability insurance to be effected by the Contractor For the amount of: R10 million With a deductible of: R2,500.00</p> | | | |
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| <u>DOCUMENTS (Clause 41.4)</u> | | | |
| <u>Clause 42.4.1</u> Waiver of the contractor's lien is required :- YES | | | |
| <u>Clause 42.4.2</u> Number of construction document copies to be supplied to the Contractor free of charge :- 3" | | | |
| <u>Clause 42.4.3</u> Specification drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments. | | | |
| <u>Clause 42.4.4</u> Number of days for submission of priced documents : 15 days from the Letter of Appointment. | | | |
| <u>Clause 42.4.5</u> JBCC Engineering General Conditions are to be included in the documents :- No | | | |
| <u>Clause 42.4.6</u> The contract value is to be adjusted using CPAP:- YES Refer to Clause 32 of these Preliminaries for details. | | | |
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| <p><u>Clause 42.4.7</u></p> <p>Details of changes made to the provisions of JBCC standard documentation:</p> <p>Note: The tenderer must study the modifications and amendments made to the relevant clauses in the Preliminaries section of the Bills of Quantities, under each clause heading. It should be noted that reference is made hereunder merely to draw the tenderers attention of clauses that have been amended or modified and the tenderer, when submitting his tender is deemed to have examined the relevant clauses for details of the amendments and modifications of the clauses in the Preliminaries:</p> <p><u>Refer to relevant clauses for the full details of changes:</u> Clause 3 - Documents Clause 7 - Compliance with regulations Clause 9 - Indemnities Clause 18 - Setting out of the Works Clause 27 - Latent defects liability period Clause 31 - Interim Payment to the Contractor Clause 32 - Adjustment to the Contract Value Clause 34 - Final account and final Payment</p> | | | |
| <p><u>SECTION B: PRELIMINARIES</u></p> <p>43 <u>DEFINITIONS AND INTERPRETATION (B1)</u></p> | Item | | |
| <p>F..... V T</p> | | | |
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| | <u>DOCUMENTS (B2)</u> | | | |
| 44 | Checking of documents (B2.1) | | | |
| | <p>The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the General Preambles for Trades as published by the Ethekewini Municipality, December 1992 edition, and no claim arising from brevity of description of items fully described in the said General Preambles for Trades and Supplementary documentation will be entertained.</p> <p>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.</p> | | | |
| | <p>F..... V T</p> | Item | | |
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| 45 | <p>Provisional Bills of Quantities (B2.2) Clause 2.2 is deemed to be deleted and replaced by the following:</p> <p>"Except where indicated otherwise, the quantities of and classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.</p> <p>The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.</p> <p>The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.</p> <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</p> | | | |
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| | way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., or loss of profit related thereto. F..... V T | | | |
| 46 | Availability of construction documentation (B2.3) F..... V T | Item | | |
| 47 | Interests of Agents (B2.4) F..... V T | Item | | |
| 48 | Priced documents (B2.5) F..... V T | Item | | |
| 49 | Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 56 (fifty-six) calendar days from the closing date of tenders. F..... V T | Item | | |
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| | <u>THE SITE (B3)</u> | | | |
| 50 | <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>The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities.</p> <p>Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.</p> <p>Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith.</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> <p>F..... V T</p> | Item | | |
| 51 | <p>Geotechnical investigation (B3.2)</p> <p>Refer to Geotechnical Report annexed to the Bills of Quantities.</p> <p>F..... V T</p> | Item | | |
| 52 | <p>Inspection of the Site (B3.3)</p> <p>No claim for extras arising from the contractor having failed to comply with the clause will be entertained.</p> <p>F..... V T</p> | Item | | |
| 53 | <p>Existing premises occupied (B3.4) : NO</p> <p>F..... V T</p> | Item | | |
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| 54 | Previous work - dimensional accuracy (B3.5) F..... V T | Item | | |
| 55 | Previous work - defects (B3.6) F..... V T | Item | | |
| 56 | Services - known (B3.7) F..... V T | Item | | |
| 57 | Services - unknown (B3.8) F..... V T | Item | | |
| 58 | Protection of trees (B3.9) F..... V T | Item | | |
| 59 | Articles of value (B3.10) F..... V T | Item | | |
| 60 | Inspection of adjoining properties (B3.11) The Tenderer shall inspect access roads, etc and shall be responsible for any damage evident at the end of the contract which has not been pointed out. F..... V T | Item | | |
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| | <u>MANAGEMENT OF CONTRACT (B4)</u> | | | |
| 61 | <p>Management of the Works (B4.1)</p> <p>Clause 4.1 shall be deemed to be amended by the addition of the following:</p> <p>The Contractor shall, to the satisfaction of the principal agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall inter alia be responsible for all activities of the contractor and all sub-contractors and in particular:-</p> <p>a) Programming b) Scheduling c) Reporting d) Production of shop drawings and samples e) Procurement and expediting f) Liaison and co-ordinating of construction g) Commissioning, instruction, handover and follow up. h) Monitoring and reporting on building activities taking place off site.</p> <p>The names and CV's on the contractor's site management team shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition thereof has been obtained. No changes shall be made nor shall any member of the said team be removed from site while remaining in employ of the contractor without the principal agent's express written approval.</p> <p>F..... V T</p> | | | |
| | | Item | | |
| 62 | <p>Programme for the Works (B4.2)</p> <p>F..... V T</p> | | | |
| | | Item | | |
| 63 | <p>Progress meetings (B4.3)</p> <p>F..... V T</p> | | | |
| | | Item | | |
| 64 | <p>Technical meetings (B4.4)</p> <p>F..... V T</p> | | | |
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| | <u>TEMPORARY SERVICES (B7)</u> | | | |
| 74 | Location (B7.1) F..... V T | Item | | |
| 75 | Water (B7.2) The employer shall provide water for the works in accordance with: Alternative A (i.e. To be provided for by the Contractor) F..... V T | Item | | |
| 76 | Electricity (B7.3) The contractor shall provide electricity on site for the works in accordance with: Alternative A (i.e. To be provided for by the Contractor) F..... V T | Item | | |
| 77 | Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. To be provided for by the Contractor) F..... V T | Item | | |
| 78 | Ablution facilities (B7.5) 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) F..... V T | Item | | |
| | <u>PRIME COST AMOUNTS (B8)</u> | | | |
| 79 | Responsibility for prime cost amounts (B8.1) F..... V T | Item | | |
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| | <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> | | | |
| 80 | <p>General Attendance (B9.1)</p> <p>Clause 9.1 shall be amended by the addition of the following:</p> <p>a) Provide every assistance necessary for the due performance by all sub-contractors of their work and to enable them to execute their work in a like manner, in a proper order and sequence.</p> <p>b) Supervise and administer the sub-contractors and arrange and monitor programmes with each sub-contractor and supplier and co-ordinate the work of all sub-contractors and deliveries by suppliers.</p> <p>c) Attendance on Nominated/Selected sub-contractors includes co-operating to the fullest extent with all parties and providing facilities for general attendance.</p> <p>F..... V T</p> | Item | | |
| 81 | <p>Special Attendance (B9.2)</p> <p>F..... V T</p> | Item | | |
| 82 | <p>Commissioning - fuel, water and power (B9.3)</p> <p>F..... V T</p> | Item | | |
| | <u>FINANCIAL ASPECTS (B10)</u> | | | |
| 83 | <p>Statutory taxes, duties and levies (B10.1)</p> <p>Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).</p> <p>F..... V T</p> | Item | | |
| 84 | <p>Payment of Preliminaries (B10.2)</p> <p>F..... V T</p> | Item | | |
| 85 | <p>Adjustment of Preliminaries (B10.3)</p> <p>F..... V T</p> | Item | | |
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| 86 | Payment certificate cash flow (B10.4) F..... V T | Item | | |
| 87 | Contractor information supply (B10.5) F..... V T | Item | | |
| <u>GENERAL (B11)</u> | | | | |
| 88 | Protection of the Works (B11.1) F..... V T | Item | | |
| 89 | Protection/isolation of existing/sectionally occupied works (B11.2) F..... V T | Item | | |
| 90 | Site security (B11.3) F..... V T | Item | | |
| 91 | Notice before covering work (B11.4) F..... V T | Item | | |
| 92 | Disturbance (B11.5) F..... V T | Item | | |
| 93 | Works cleaning and clearing (B11.6) F..... V T | Item | | |
| 94 | Vermin (B11.7) F..... V T | Item | | |
| 95 | Overhand work (B11.8) F..... V T | Item | | |
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| | <u>SCHEDULE OF VARIABLES (B12)</u> | | | |
| 96 | <p>Pre-tender information (B12.1)</p> <p>Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is irrelevant for this specific contract.</p> <p>F..... V T</p> <p>Provisional Bills of Quantities (B2.2) N/A The quantities are provisional (NO). Availability of Construction documentation (B2.3) Interests of Agents (B2.4) Defined works area (B3.1) Tenderers shall establish by personal viewing of the site conditions any restrictions imposed by existing buildings, limited means of access and the like. Geotechnical investigation (B3.2) Refer to Annexure 12 Existing premises occupied (B3.4): (N/A) Services - known (B3.7) Protection of trees (B3.9) Inspection of adjoining properties (B3.11) Enclosure of the works (B6.2) Offices (B6.4.3) Main notice board (B6.5) One main notice board shall be provided - refer to Annexure 6 Subcontractors notice board (B6.6) A notice board is required (No) Water (B7.2) Alternative chosen: A Electricity (B7.3) Alternative chosen: A Telecommunications (B7.4) Alternative chosen: A Ablution facilities (B7.5) Alternative chosen: A Special Attendance (B9.2) Protection of the Works (B11.1) Protection of existing/sectionally occupied works (B11.2) Disturbance (B11.5)</p> | Item | | |
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| | <u>SECTION C: SPECIFIC PRELIMINARIES</u> | | | |
| | <u>Section C: Specific Preliminaries:</u> | | | |
| 97 | <p>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.</p> <p>F..... V T</p> | Item | | |
| 98 | <p>C2. Trade Names, etc. All materials, fittings, finishing, 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, finishing, etc., will be assumed to have been allowed for in the tender.</p> <p>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.</p> <p>F..... V T</p> | Item | | |
| 99 | <p>C3. Contractors responsibility 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.</p> <p>F..... V T</p> | Item | | |
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| 100 | <p>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.</p> <p>F..... V T</p> | Item | | |
| 101 | <p>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.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p> <p>F..... V T</p> | Item | | |
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| 102 | <p>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.</p> <p>The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p><u>a) Construction Instruction Book:</u> 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 in the book.</p> <p><u>b) Daily Record Book</u> 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.</p> <p>F..... V T</p> | Item | | |
| 103 | <p>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.</p> <p>F..... V T</p> | Item | | |
| 104 | <p>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.</p> <p>F..... V T</p> | Item | | |
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| 105 | <p>C9. Encroachment 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.</p> <p>F..... V T</p> | Item | | |
| 106 | <p>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.</p> <p>F..... V T</p> | Item | | |
| 107 | <p>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.</p> <p>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.</p> <p>F..... V T</p> | Item | | |
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| 108 | <p>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.</p> <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>F..... V T</p> | Item | | |
| 109 | <p>C13. Shop Drawings The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work.</p> <p>The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:</p> <p>(a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.</p> <p>(b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.</p> <p>(c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together</p> | | | |
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| <p>with any cost and/or time implications.</p> <p>Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like.</p> <p>(d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval.</p> <p>(e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</p> <p>(f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</p> <p>(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.</p> <p>(h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.</p> <p>F..... V T</p> | Item | | |
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| 110 | <p>C14. Commodities to be New</p> <p>All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.</p> <p>F..... V T</p> | Item | | |
| 111 | <p>C15. Standard of Workmanship and Materials</p> <p>In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.</p> <p>F..... V T</p> | Item | | |
| 112 | <p>C16. Making Good</p> <p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abut existing, they are to be neatly jointed to same.</p> <p>Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.</p> <p>F..... V T</p> | Item | | |
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| 113 | <p>C17. Location of Temporary Buildings and Temporary Services 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>F..... V T</p> | Item | | |
| 114 | <p>C18. Removal and Making Good of Temporary Works, etc, on Completion 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> | Item | | |
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| 115 | <p>C19. Overloading The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations.</p> <p>The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense.</p> <p>Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense.</p> <p>F..... V T</p> | Item | | |
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| 116 | <p>C20. Tender Sum to be Fully Inclusive The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for:</p> <ul style="list-style-type: none"> - The supply of all materials - Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates. - All making, transport, conveying, cartage, carriage and delivery, etc. - Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models. - Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc. - All applicable import taxes and duties. - Overheads and profit - All obligations arising out of The Bills of Quantities, and all costs and charges deemed necessary for complying with The terms and conditions herein. <p>All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.</p> <p>F..... V T</p> | | | |
| 117 | <p>C21. Cost of Claims All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p> <p>F..... V T</p> | Item | | |
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| 118 | <p>C22. Media Releases All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer.</p> <p>F..... V T</p> | Item | | |
| 119 | <p>The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.</p> <p>F..... V T</p> | Item | | |
| 120 | <p>C23. Guarantees and Maintenance Manuals The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors.</p> <p>The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.</p> <p>F..... V T</p> | Item | | |
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| 121 | <p>C24. Occupational Health and Safety Act The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act.</p> <p>Acceptance by the Council of the Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37(2) of the said Act.</p> <p>The Council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction referred to.</p> <p>The Council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above.</p> <p>The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in Annexure 10 of these Bills of Quantities.</p> <p>F..... V T</p> | Item | | |
| 122 | <p>C25. Notes to Tenderers Items which the Tenderer wishes to price in order to provide for the due observance of the requirements of the 'Notes to Tenderers' outlines at the beginning of this Specification may be priced under this item:</p> <ol style="list-style-type: none"> 1. Tenders, Tender Forms and Closing Date 2. Fax Tenders 3. Withdrawal of Tenders 4. Acceptance of Tender 5. Scope of Contract 6. System of Measurement 7. Documentation to be submitted with Tender 8. Contract Price Adjustment Provisions 9. Conditions pertaining to Targeted Procurement | | | |
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| 10. Contract Participation Goal | | | |
| 11. Labour Goals | | | |
| 12. FTE Employment Information | | | |
| 13. Community Liaison Officer, etc. | | | |
| 14. Application for Service Connections | | | |
| 15. Viewing the Site | | | |
| 16. Communications with members of Tender/Bid Committee | | | |
| 17. Tender Fee | | | |
| 18. Market Related Wage Rates | | | |
| 19. Tender Prices and Contingency Sum | | | |
| 20. Value Added Tax | | | |
| 21. Tax Clearance Certificate | | | |
| 22. Occupational Health and Safety Act | | | |
| 23. CIDB Register of Contractors | | | |
| 24. Registration on central supplier data base | | | |
| 25. Contractor's Domestic Sub-contractors for Plumbing/Electrical Installations | | | |
| 26. Contractor's Domestic Sub-contractors for Water/Electrical Connections | | | |
| 27. Use of Proprietary Products | | | |
| 28. Termination of Contracts | | | |
| 29. Appeal Process | | | |
| 30. Prohibitions on Awards to Persons in the Service of the State | | | |
| 31. Minimum Experience Requirement | | | |
| 32. Performance monitoring and assessment of service providers | | | |
| 33. Empowerment strategies | | | |
| 34. Schedule of Drawings | | | |
| 35. Contract Period | | | |
| 36. Electronic tender document | | | |
| 37. Additional conditions of contract | | | |
| 38. Pricing of 'Notes to Tenderers' | | | |
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| | <p><u>SECTION 2</u></p> <p><u>BILL No. 2</u></p> <p><u>ALTERATIONS</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Existing Furniture, Equipment, etc</u></p> <p>The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done</p> <p><u>Damage to existing finishes</u></p> <p>The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.</p> <p>Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account</p> | | | |
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| | <p>Section 2 Alterations (Provisional) Bill No. 1 Alterations</p> | | | |

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| | <p><u>Responsibility for site</u></p> <p>The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above</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>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works 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> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent</p> | | | |
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| | <p>Section 2 Alterations (Provisional) Bill No. 1 Alterations</p> | | | |

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| <p>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</p> | | | |
| <p>"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the fame, 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</p> | | | |
| <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing</p> | | | |
| <p>"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing</p> | | | |
| <p>"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</p> | | | |
| <p>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)</p> | | | |
| <p>Carried to Collection</p> | | | R |
| <p>Section 2 Alterations (Provisional) Bill No. 1 Alterations</p> | | | |

| Item No | Quantity | Rate | Amount |
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| <p>The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing</p> <p>"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 plaster or other finishings as described</p> <p>Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained</p> <p>"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.</p> <p><u>Removal of asbestos material</u></p> <p>All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.</p> | | | |
| Carried to Collection | | | R |
| Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>The following shall apply in respect of asbestos removal</u></p> | | | |
| <p>The removal of asbestos shall be carries out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001</p> | | | |
| <p>Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose</p> | | | |
| <p>Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material</p> | | | |
| <p>Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occuring, the Contractor will be held responsible contractually and may further be prosecuted ciminally</p> | | | |
| <p>The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained</p> | | | |
| <p>Carried to Collection</p> | | R | |
| <p>Section 2 Alterations (Provisional) Bill No. 1 Alterations</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>TEMPORARY BARRIERS, SCREENS, ETC</u> | | | |
| | <u>Temporary barriers, screens, etc including removal and allow for re-use</u> | | | |
| 1 | SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing | m | 229 | |
| 2 | Double gate size 3 x 1.8m high | No | 2 | |
| | <u>REMOVAL OF EXISTING WORK</u> | | | |
| | <u>Breaking up and removing reinforced concrete</u> | | | |
| 3 | 2450 x 2450 x 1000mm Deep water tank stand and including removal of the plastic tanks. | No | | |
| | <u>Break down and remove brickwork etc</u> | | | |
| 4 | One brick wall in beam filling | m2 | 51 | |
| 5 | Half brick wall in beam filling | m2 | 10 | |
| | <u>Taking out and removing doors, windows, etc, including thrsholds, sills, etc and building up openings in brick walls, including making good cement plaster on side(s) (making good paintwork elsewhre)</u> | | | |
| 6 | Timber single door 813 x 2032mm high (frame to remain) | No | 4 | |
| 7 | Timber single door and timber frame 813 x 2032m high overall from one brick wall. | No | 4 | |
| 8 | Timber single door and timber frame 813 x 2032m high overall from half brick wall. | No | 3 | |
| 9 | Timber single door and steel frame 813 x 2032m high overall from one brick wall. | No | 5 | |
| | Carried to Collection | | | |
| | Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely</u> | | | |
| 10 | Asbestos roof sheeting including timber purlins, underlay, etc. and the provision of a certificate of safe disposal for asbestos | m2 | 772 | |
| 11 | Steel roof trusses.(building area measured flat including verandas and overhangs | m2 | 259 | |
| 12 | Timber roof trusses.(building area measured flat including verandas and overhangs | m2 | 513 | |
| 13 | Asbestos board ceilings including cornices, timber brandering, etc and the provision of a certificate of safe disposal for asbestos | m2 | 694 | |
| 14 | Gypsum plasterboard ceilings including cornices, timber brandering, etc | m2 | 62 | |
| 15 | Asbestos fascia boards and fixings, etc and the provision of a certificate of safe disposal for asbestos | m | 164 | |
| 16 | Fibre cement fascia boards and fixings | m | 160 | |
| 17 | Asbestos barge boards and fixings, etc and the provision of a certificate of safe disposal for asbestos | m | 43 | |
| 18 | Fibre cement barge boards and fixings | m | 37 | |
| 19 | Asbestos rainwater gutters and fixings, etc and the provision of a certificate of safe disposal for asbestos | m | 164 | |
| 20 | Pvc rainwater gutters and fixings | m | 160 | |
| 21 | Asbestos rainwater downpipes and fixings, etc and the provision of a certificate of safe disposal for asbestos | m | 48 | |
| 22 | Pvc rainwater downpipes and fixings | m | 48 | |
| | <u>Taking out and removing ironmongery</u> | | | |
| 23 | Damaged chalkboard 2400 x 1140mm | No | 6 | |
| 24 | Damaged notice board 2400 x 1200mm | No | 7 | |
| | Carried to Collection | | | R |
| | Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|-------|--------|
| | <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 eleswhere)</u> | | | |
| 31 | Carefully remove existing sanitary fittings, whb and cart away off site | No | 6.00 | |
| 32 | Carefully remove existing sanitary fittings, WC and cart away off site | No | 12.00 | |
| 33 | Carefully remove existing sanitary fittings, porcelain wall mounted urinal and cart away off site | No | 5.00 | |
| 34 | Carefully remove existing sanitary fittings, metal wall mounted urinal and cart away off site | No | 1.00 | |
| 35 | Carefully remove existing stainless steel urinal not exceeding 5m long, including fittings and cart away off site | No | 1.00 | |
| | <u>Taking out and removing glass and mirrors, etc</u> | | | |
| 36 | Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere) | m2 | 45 | |
| | <u>PREPARATORY WORK TO EXISTING SURFACES</u> | | | |
| | <u>Prepare existing surfaces for new finish</u> | | | |
| 37 | Carefully sand down existing paint to steel window frames including burglar bars externally and prepare surface to receive new | m2 | 65 | |
| 38 | Carefully sand down existing paint to steel window frames including burglar bars internally and prepare surface to receive new | m2 | 65 | |
| 39 | Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish | m2 | 1,620 | |
| | Carried to Collection | | | R |
| | Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u> | | | |
| 47 | Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls etc, 500mm away from excavated faces. | m3 | 7 | |
| | <u>Earth filling supplied by the Contractor compacted to 95% MOD AASHTO:</u> | | | |
| 48 | Under floors, steps, pavings, etc. | m3 | 15 | |
| | <u>Compaction of surfaces</u> | | | |
| 49 | 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 90% Mod AASHTO density. | m2 | 8 | |
| | <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> | | | |
| | <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | | |
| | <u>25Mpa/19mm Concrete</u> | | | |
| 50 | Strip footings. | m3 | 16 | |
| | <u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u> | | | |
| | <u>Rough Formwork to Sides:</u> | | | |
| 51 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 64 | |
| | <u>SOIL POISONING</u> | | | |
| | <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u> | | | |
| 52 | To bottoms and sides of trenches, holes, etc. | m2 | 64 | |
| | Carried to Collection | | | |
| | Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>DAMPPROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u> | | | |
| 53 | Under surface beds, bases, etc. | m2 | 32 | |
| | <u>Temporary Accommodation</u> | | | |
| | <u>Provide temporary accommodation units (park homes) for Educational Facilities during construction in phases as herewith measured including leveling of area, positioning on site and connected electrical supply including issue of electrical compliance certificate. Park homes to be standard size class room size and needs to be minimum 7 x 7m or nearest standard size</u> | | | |
| 54 | Rental of temporary accommodation approximate size 7 x 7m wide, including standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, electrical certificate of compliance, for a period of <u>ten (10) calendar months</u> | No | 3 | |
| 55 | Two tier steps for <u>ten (10) Calendar months</u> | No | 3 | |
| 56 | Electrical Compliance Certificate | No | 3 | |
| 57 | Transportation and establishment on site and de-establishment on completion temporary accommodation units approximate size 7 x 7m wide | No | 3 | |
| | <u>TEMPORARY ABLUTIONS</u> | | | |
| 58 | Rental of temporary parkhome ablutions approximate size 6 x 3 x 2,3m high for the sole use by the school, for 7 months inclusive of servicing on a regular basis. Ablutions are to be kept clean and in operation for the duration. | No | 2 | |
| 59 | Transportation and establishment on site and de-establishment on completion temporary ablutions approximate size 1,2 x 1,2 x 2,3m high | No | 2 | |
| | Carried to Collection | | | R |
| | Section 2 Alterations (Provisional) Bill No. 1 Alterations | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>SECTION 3</u></p> | | | |
| <p><u>BILL No. 1</u></p> | | | |
| <p><u>MASONRY</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</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 represent the length and 'half brick' the width of a brick.</p> | | | |
| <p><u>Face bricks:</u></p> | | | |
| <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> | | | |
| <p><u>Pointing:</u></p> | | | |
| <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, and cleaning etc.</p> | | | |
| <p><u>Samples, etc:</u></p> | | | |
| <p>Rates for brickwork, faced brickwork, etc shall include for all required samples.</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 1 Masonry</p> | | | |
| | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>Concrete masonry units:</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa</p> <p><u>Wall ties for blockwork:</u></p> <p>Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork:</u></p> <p>Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"</p> <p>Surfaces shall have joints raked out to a depth of at least 10mm and pointed on exposed surfaces. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.</p> <p><u>Standard complementary blocks:</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary</p> | | | |
| Carried to Collection | | | R |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 1 Masonry</p> | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 1

Masonry

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Bill No. 1
Masonry

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 2</u> | | | |
| | <u>WATERPROOFING</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <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>DAMP-PROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u> | | | |
| 1 | Below walls, sills, etc. | m2 | 23 | |
| | <u>JOINT SEALANTS ETC</u> | | | |
| | <u>Clear Neutral silicone sealant:</u> | | | |
| 2 | In joint sealing and pointing all round external window and door frames. | m | 60 | |
| | <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> | | | |
| 3 | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional). | m | 25 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 2 Waterproofing | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL No. 3</u></p> <p><u>ROOF COVERINGS</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Flashings</u></p> <p>Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side</p> <p><u>Quality Assurance</u></p> <p>The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System</p> | | | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>Guarantee</u></p> <p>Z275 Steel or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials and a five year written guarantee on workmanship and water-tightness after final inspection of the roofs, by the manufacturer.</p> <p><u>Safety</u></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity</p> <p><u>Handling and Storage</u></p> <p>The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction</p> | | | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings</p> | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>Inspection Prior to Installation or Erection</u></p> <p>Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:</p> <p>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</p> <p>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</p> <p>c. The corners of the roof are square and the wall framework is perpendicular or as specified</p> <p>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</p> <p>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</p> <p>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided</p> <p>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding</p> | | | |
| <p><u>Protrusion through Sheeted Surfaces</u></p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation</p> | | | |
| <p>Carried to Collection</p> | | | R |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings</p> | | | |

| Item No | <u>Cleaning of Roofs, etc</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p>All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>0.58mm thick AZ150G550 painted (ZincAL) IBR profile roof sheeting with pre-painted factory finish (colour as per Architect's approval), fixed with leak king roofing screws, holes for roofing screws to be drilled not punched, class 3 metal self drilling screws at every second crest at intermediate purlins & at every crest at eave purlins. All screw / fasteners must have a rubber washer (EPDM) seal. All fixings must be along the centre of the crest & perpendicular to the purlin. Ends of the sheeting to be bent to form stop ends. Mastic sealant at junction between roof sheeting & polyclosures. Determine direction of wind before laying sheets. Sheets to project a minimum of 50mm beyond purlins at eaves. Sheets to be fixed to 76mm high x 50mm wide timber purlins at max. of 1100mm centres on trusses at max. of 1250mm centres to be strapped to 114w x 38mm wall-plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built 600mm into brickwork coursing. Prefabricated cleated roof trusses to be in accordance with the roof manufacturers specifications as approved by the roof manufacturers engineer, 114 x 38mm rafters and ties, 114 x 38mm intermediate members. Roof manufacture must provide workshop drawings for approval and stability certificate.</u></p> | | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 772 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings | | | |

| Item No | | Quantity | Rate | Amount |
|---|--|----------|------|--------|
| | <u>0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u> | | | |
| 2 | Ridge capping 550mm girth, screwed through sheet to purlins | m | 62 | |
| 3 | Standard narrow and broad flute closers. | m | 124 | |
| Carried to Collection | | | | R |
| Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings | | | | |

| Item No | <u>ROOF AND WALL INSULATION</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 4 | <p><u>Reflective foil insulation or equal approved 420 Heavy reinforced aluminium foil insulation double sided, heat reflective foil laminate incorporating eight layers of alkali reinforcing scrim, Kraft paper and polyethylene, tested with SABS 1381: Part IV-1985, with a Class 1 fire rating SABS 0177: part III - 1981 and BS 476 part 5, 6 and 7, truss/rafter with 38mm x 3,2mm x 1100mm hardboard positioned flush with the bottom edge of the material overlap exposed at the top for the next layer and 150mm on each 1250mm width roll. All to be fixed in accordance with specification</u></p> <p>Insulation laid taut over purlins (at approximately 450mm centres) and fixed concurrent with roof covering including galvanised steel straining wires</p> | m2 | 772 | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings</p> | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 3

Roof Coverings

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 New Works to Existing Structures (Provisional)
 Bill No. 3
 Roof Coverings

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>BILL No. 4</u></p> | | | |
| <p><u>CARPENTRY & JOINERY</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>ROOFS ETC</u></p> | | | |
| <p><u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u></p> | | | |
| <p>All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction</p> | | | |
| <p>TR1 & TR2 Certificates are to be issued for each Block before occupation may take place</p> | | | |
| <p><u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u></p> | | | |
| <p>NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES</p> | | | |
| <p>Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates</p> | | | |
| <p><u>TIMBER</u></p> | | | |
| <p>Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery</p> | | | |
| | | R | |

| Item No | Quantity | Rate | Amount | | | | | | | | | | | | | | | |
|--|-------------------|-----------|--------|------------|------------|-----------|----------|----|-----|-----------|----|-----|-----------|----|-----|--|--|--|
| <p><u>METAL CONNECTOR PLATES</u></p> <p>Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be 0,275Kg/m2 commercial class hot dipped galvanising</p> <p>The connector plates shall have been tested by the CSIR and be a size capable of transmitting the forces between the members of a truss without exceeding the design values given in the CSIR report</p> | | | | | | | | | | | | | | | | | | |
| <p><u>BOLTS</u></p> <p>Bolts shall be to BS 4190 or SANS 135 with appropriate washers. (See below)</p> | | | | | | | | | | | | | | | | | | |
| <p><u>WASHERS</u></p> <p>Square or round washers of the following minimum dimensions shall be used with all bolts:</p> <table border="1" data-bbox="204 999 767 1151"> <thead> <tr> <th colspan="3">WASHER DIMENSIONS</th> </tr> <tr> <th>Bolts Size</th> <th>Width (mm)</th> <th>Thickness</th> </tr> </thead> <tbody> <tr> <td>up to M8</td> <td>25</td> <td>2,5</td> </tr> <tr> <td>up to M12</td> <td>36</td> <td>4,0</td> </tr> <tr> <td>up to M20</td> <td>60</td> <td>5,0</td> </tr> </tbody> </table> | WASHER DIMENSIONS | | | Bolts Size | Width (mm) | Thickness | up to M8 | 25 | 2,5 | up to M12 | 36 | 4,0 | up to M20 | 60 | 5,0 | | | |
| WASHER DIMENSIONS | | | | | | | | | | | | | | | | | | |
| Bolts Size | Width (mm) | Thickness | | | | | | | | | | | | | | | | |
| up to M8 | 25 | 2,5 | | | | | | | | | | | | | | | | |
| up to M12 | 36 | 4,0 | | | | | | | | | | | | | | | | |
| up to M20 | 60 | 5,0 | | | | | | | | | | | | | | | | |
| <p><u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u></p> <p>These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".</p> | | | | | | | | | | | | | | | | | | |
| <p><u>NAILS</u></p> <p>These shall be in accordance with SANS 820 : 1974</p> | | | | | | | | | | | | | | | | | | |
| <p>Carried to Collection</p> | | | R | | | | | | | | | | | | | | | |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery</p> | | | | | | | | | | | | | | | | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>TRUSS CONSTRUCTION</u></p> <p>The trusses shall be constructed to ensure the correct profile, overhangs and cambers</p> <p>All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint</p> | | | |
| <p><u>TRUSS DESIGN</u></p> <p>All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SANS Code of Practice for the Design of Timber Structures SANS 0163 and the Code of Practice for General Procedures and Loadings SANS 0160</p> | | | |
| <p><u>TRUSS SPACING</u></p> <p>The truss centres shall be less than or equal to that described in the Bills for each respective truss type</p> | | | |
| <p><u>DRAWINGS</u></p> <p><i>Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer</i></p> <p>The following minimum information shall be supplied:</p> <ul style="list-style-type: none"> * Details of the roof system with the positions of all trusses and beams clearly indicated * Bracing details * All truss details, including valley trusses where applicable, with the following clearly detailed:- <ul style="list-style-type: none"> - All member sizes and grades - Connector plate sizes for all truss joints. Code numbers are deemed sufficient * All connection and hold down details between trusses, girders, beams and supports * The type of roof covering, ceiling and any other loads taken into account in the design | | | |
| <p>Carried to Collection</p> | | | R |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery</p> | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p>The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area</p> | | | |
| <p><u>GENERAL</u></p> | | | |
| <p>The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading</p> | | | |
| <p>The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative</p> | | | |
| <p><u>ERECTION</u></p> | | | |
| <p>The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SANS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"</p> | | | |
| <p><u>TRUSS LOADING</u></p> | | | |
| <p>The trusses shall be designed for: * Roof Cover: 0,8mm Metal roof sheeting * Max Purlin centres: 900mm * Ceilings: Fibre-cement ceilings * Overhang: Min 600mm</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery</p> | | | |
| | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>TRUSSES</u></p> <p>a. All the roof trusses to be at average 1 000mm centres and constructed for approximable 25deg pitch unless otherwise stated</p> <p>b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions</p> <p>c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut</p> <p>d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc.,but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured</p> <p>e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design</p> <p>f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR</p> <p>g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing</p> | | | |
| <p>Carried to Collection</p> | | | R |
| <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|--------|--------|
| | <u>PREFABRICATED ROOF TRUSSES, ETC.</u> | | | |
| | <u>Plate nailed pitched timber roof construction</u> | | | |
| | <u>Sawn Softwood</u> | | | |
| 1 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations to suit roof area (measured on flat floor area inclusive of overhangs, etc) and including, permanent bracing and 75 x 75mm purlins (38 x38mm battens) at 600mm centres for roof covering (wall plates elsewhere)- Refer to roof plans. | m2 | 772 | |
| | <u>Sundries</u> | | | |
| 2 | 38 x 114mm wall plate | m | 171.76 | |
| 3 | TRI FIX or equal hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). | No | 298.00 | |
| | <u>EAVES, VERGES, ETC</u> | | | |
| | <u>Pressed fibre-cement:</u> | | | |
| 4 | 12 x 225mm EVERITE NUTEC medium density fibre-cement fascia board (product no (041-202) or equal approved. Aluminium H-Profile fascia joiners (product no 685-1950. Drill and for fix with Hot dipped galvanised screws and washers. | m | 172 | |
| 5 | Extra on last for splay cut end. | No | 22 | |
| 6 | 80 x 200mm EVERITE NUTEC fibre cement socketless Barge boards (Product no 521-731) or equal approved. Aluminium H-profile barge board joiners(product No 685-187). drill for and fix with Hot dipped galvanise screws and washers. 76 x 50mm trimmer batten fixed underside of purlin ends for barge board fixing. | m | 80 | |
| 7 | Extra on last for splay cut end. | No | 16 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 4

Carpentry and Joinery

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New Works to Existing Structures (Provisional)
Bill No. 4
Carpentry and Joinery

R

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>BILL No. 5</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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><u>Trade Names</u></p> <p>Where trade names are specified equal materials approved by the Principal Agent may be used</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>4mm "Everite Nutec" or equal similar Architect approved fibre-cement boards with H-type pressed steel jointing strips</u></p> | | | |
| 1 | Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres | m2 | 706 | |
| 2 | Extra over ceiling for forming trap door size 635 x 635mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers. | No | 12 | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 5 Ceilings, Partitions and Access Flooring</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 3 | <p><u>Cornice</u></p> <p>Everite Nucornice Nu-Cornice Plain 75 or equal approved, overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer`s recommendations.</p> | m | 351 | |
| | <p><u>100mm thick Aerolite or equal approved non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer`s recommendations.</u></p> <ul style="list-style-type: none"> • <u>R-value: 2,50m² K/W</u> • <u>Thermal conductivity: 0,04 W/m²/K</u> | | | |
| 4 | 100mm Insulation laid between roof trusses and on top of brandering, etc. | m2 | 706 | |
| | Carried to Collection | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 5 Ceilings, Partitions and Access Flooring</p> | | | |

Section 3
New Works to Existing Structures (Provisional)
Bill No. 5
Ceilings, Partitions and Access Flooring

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Section 3
New Works to Existing Structures (Provisional)
Bill No. 5
Ceilings, Partitions and Access Flooring

R

| Item No | <u>BILL No. 6</u> | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>FLOOR COVERINGS, WALL LININGS, ETC</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <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>Cleaning:</u> | | | |
| | Rates for floor covering shall include for proper cleaning on completion. | | | |
| | <u>VINYL FLOOR COVERINGS</u> | | | |
| | <u>2.5mm thick x 300mm x 300mm wide Floorworks semi-flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive, or equal approved, spread with trowel having 1.5mm x 1.5mm x 1.5mm triangular notches at 4.00mm centres as per Architectural and Manufacturers specifications. (to be lain in 4 colours as per the Architectural choice):</u> | | | |
| 1 | On floors | m2 | 694 | |
| | <u>POLISH, SEALERS, ETC</u> | | | |
| | <u>Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:</u> | | | |
| 2 | Vinyl tile flooring | m2 | 694 | |
| | Carried Forward to Summary of Section No. 3 | | | |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 6 Floor Coverings, Wall Linings, Etc. | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 7</u> | | | |
| | <u>IRONMONGERY</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Keys/Locks</u> | | | |
| | Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys | | | |
| | <u>Trade Names</u> | | | |
| | Where trade names are specified other ironmongery approved by the Principal Agent may be used | | | |
| | <u>Fixing</u> | | | |
| | Fixing of ironmongery is deemed to be fixed to timber unless otherwise described | | | |
| | <u>IRONMONGERY</u> | | | |
| | <u>Window ironmongery to match existing</u> | | | |
| 1 | Window hinges | No | 20 | |
| 2 | Window handles | No | 20 | |
| | <u>Union or equal approved Locks:</u> | | | |
| 3 | UNION RADIUS 4L LOCKSET SC Code - CZ6922461SC | No | 23 | |
| 4 | UNION RADIUS 2L LOCKSET SC Code - CZ6922495SC | No | 4 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 7 Ironmongery | | | |

| Item No | | | Quantity | Rate | Amount |
|---------|---|-------|----------|------|--------|
| | <u>Union or equal approved Handles:</u> | | | | |
| 5 | 200mm Pull handle BTB Code - AL5515-200BBAS | Pairs | 25.0 | | |
| | <u>Union or equal approved Door Stop</u> | | | | |
| 6 | Door stop - Code - AL8730AS | No | 27 | | |
| | <u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u> | | | | |
| 7 | VITREX Model 2000 series or similar & approved: standard vitreous enamel steel wall mounted educational range white board, overall size 2400x1200mm, complete with integral anodised aluminum pen rail, fixing components & secured in position to brickwork. | No | 7 | | |
| 8 | Pinning board 4800 x 1200mm High overall of 9mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 70 x 22mm rebated wrought Saligna frame with one vertical middle rail. | No | 8 | | |
| | Carried to Collection | | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 7 Ironmongery | | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 7

Ironmongery

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New Works to Existing Structures (Provisional)
Bill No. 7
Ironmongery

R

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL No. 8</u></p> <p><u>METALWORK</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Descriptions</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 or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE: All steel will be Hot dipped galvanised unless otherwise stated.</p> <p><u>HOT DIP GALVANIZED STEEL GATES</u></p> <p><u>Note: The contractor is to check on site measurements before placing of order.</u></p> <p><u>Security Gate formed of 20 x 20 x 1.6mm square MS hollow sections forming bracing in 50 x 50 x 1.6mm MS section forming gate frame, hang with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:</u></p> | | | |
| 1 | Security Gate size 1049 x 2 143mm high (G1). | No | 14 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 8 Metalwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>SUNDRY GALVANISED STEELWORK</u> | | | |
| | <u>Purpose made roof supports, columns etc.</u> | | | |
| 2 | 100 x 100 x 750mm Galvanised mild steel post square hollow vertical frame section fixed to brick piers size 340 x 340 x 1700mm high. | No 10 | | |
| | <u>GALVANIZED PRESSED STEEL DOOR FRAMES</u> | | | |
| | <u>1,2mm galvanised mild steel standard pressed jamb lining with double rebates to suit one brick wall:</u> | | | |
| 3 | Frame for door 813 x 2032mm high. | No 4 | | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 8 Metalwork | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 8

Metalwork

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Section 3
New Works to Existing Structures (Provisional)
Bill No. 8
Metalwork

R

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 9</u> | | | |
| | <u>PLASTERING</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>SCREEDS</u> | | | |
| | <u>1:3 Cement and sand screeds steel trowelled on concrete:</u> | | | |
| 1 | 33mm thick on floors. | m2 | 706 | |
| | <u>GRANOLITHIC</u> | | | |
| | <u>Untinted granolithic on concrete:</u> | | | |
| 2 | 30mm Thick on floors. | m2 | 656 | |
| | <u>INTERNAL PLASTER</u> | | | |
| | <u>Cement plaster on brickwork:</u> | | | |
| 3 | On walls. | m2 | 344 | |
| 4 | In narrow widths. | m2 | 35 | |
| | <u>EXTERNAL PLASTER</u> | | | |
| | <u>Cement plaster on brickwork:</u> | | | |
| 5 | On walls. | m2 | 102 | |
| 6 | In narrow widths. | m2 | 29 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 9 Plastering | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL No. 10</u></p> <p><u>TILING</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</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>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.</p> <p><u>CERAMIC FLOOR TILING</u></p> <p><u>NON SLIP JOHNSONS TILES ,Code: FE-074 Forte River Sand - Grade 'A' - 400 X 400 x 8mm thick with 'Tal Gold Star 6' rapid setting tile adhesive with 6mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout'. Tile expansion joint spacing as per tiling manufacturers specification.</u></p> | | | |
| 1 | On smooth powerfloated floors. | m2 | 212 | |
| 2 | 70mm high tile skirting to match floor set into plaster so that face of tile level with finished plaster. | m | 74 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 10 Tiling | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>WALL TILING</u> | | | |
| | <u>200 x 200 x 4,7mm 'Johnson Matisse MWB4' white glazed wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive to plaster (elsewhere measured) with 2mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout' at 2100mm high. Surfaces must be prepared as per the manufacturers specifications prior to installing the final wall finish. Tile expansion joint spacing as per tiling manufacturers specification. Tiled splash-backs to be provided at isolated WHB's at 600x600 around the WHB's.</u> | | | |
| 3 | On smooth plastered walls. | m2 | 100 | |
| 4 | Ditto, on narrow widths. | m2 | 2 | |
| 5 | On walls in isolated panels, splashbacks, etc. | m2 | 15 | |
| | <u>SUNDRIES</u> | | | |
| | <u>WALL TILE EDGE TRIMS:</u> | | | |
| 6 | ANGLE TRIM: 3mm thick MTrim Natural anodised aluminum angle edge trim to be installed at 90° junctions between wall tiles. Depth of the edge trim to suite the wall tile thickness | m | 25 | |
| | <u>FLOOR TILE EDGE TRIMS:</u> | | | |
| 7 | ANGLE TRIM: 3mm thick MTrim Natural anodised aluminum angle edge trim to be installed at junction between the different floor finishes (vinyl, ceramic tiles, & grano). Depth of the edge trim to suite the floor finish (tile) thickness. | m | 45 | |
| 8 | FLAT TRIM: 3mm thick MTrim Natural anodised aluminum flat bar trim to be installed at floor tile expansion as per the manufacturers specifications. Tile expansion spacing to be as per the manufacturers specifications. Depth of the edge trim to suite the floor finish (tile) thickness | m | 45 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 10 Tiling | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 10

Tiling

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Bill No. 10
Tiling

R

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 11</u> | | | |
| | <u>PLUMBING AND DRAINAGE</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>RAINWATER DISPOSAL</u> | | | |
| | <u>Seamless aluminium:</u> | | | |
| 1 | 125mm x 85mm domestic OGEE x 0,6mm with white concealed brackets fixed at 500mm centres. | m | 151 | |
| 2 | Extra over eaves gutter for stopped end. | No | 12 | |
| 3 | Extra over eaves gutter for outlet for 75mm diameter PVC downpipe | No | 14 | |
| 4 | 75 mm Diameter PVC downpipe fixed to wall with straps at 1500mm centres using nail plugs, with pvc downpipes riveted and silicone sealed to gutter outlets | m | 42 | |
| 5 | Extra over rainwater downpipe for bends. | No | 14 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | |

| Item No | | Quantity | Rate | Amount |
|---|--|----------|------|--------|
| <u>SANITARY FITTINGS</u> | | | | |
| <u>Vaal or equal Architect approved:</u> | | | | |
| 6 | Supply and Install complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Vaal Sanitary: "Parktown" 90° outlet (Code 431500) 580 x 350 x 360mm high, white vitreous china WC suite with top inlet, closed rim back-to-wall pan, with rubber joint and fixing pan to concrete floor. Vaal Jazz Thermoset hinged Seat set (Code 8531Z0), with stainless steel hinges. Cobra Watertech: Code: FJ2-210 - Junior Flushmaster Flushvalves, top entry exposed type. Top entry + flush pipe, connector, wall flange, seat buffer. SANS 1240. Includes Flush valve, flush pipe, wall flange, compression pan connector, rubber seat buffer, & integral vacuum breaker. All Installation to be as per the manufacturers specifications | No | 12 | |
| 7 | Vaal (Code: VAA-700603) Rounded "Tuscany" 560x415x210mm basin with three semi-punched 1 x taphole configuration, integrated overflow, and chain stay hole through the centre semi-punched taphole. Fixing Bolt Set 10mm - Set of 2. (Code: VAA-8448Z0) for fixing to brickwork / concrete. Vitreous china classic full pedestal - Code: (VAA-715000). No pedestal for paraplegic WHB's. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications | No | 6 | |
| 8 | Vaal Sanitary: "Flatback Urinal" (Code 705326), size 415 x 315 x 275mm. Waste: Vaal sanitary ware 38mm chrome plated domical grating (code: 8787Z0). Vaal: Chrome plated top inlet spreader (code 8543Z0) & mounted onto to two hangar brackets (code 8127Z0) & bolted to walls. Cobra Watertech: Flushmaster Code: (FJ6.000CP) urinal flush valves, including FJT5-5 flush pipe, Offset urinal flush pipe = 215mm long x 15mm outlet with 27mm offset. Cobra Watertech: CP Bottle Trap, 32mm 360/50 trap joined to waste outlet fitting & pvc pipe. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications | No | 5 | |
| Carried to Collection | | | | R |
| Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 9 | <p>Vaal Sanitary: "Pearl Paraplegic 7300SC" white vitreous china floor mounted paraplegic semi close couple 90° outlet open rim wash-down suite comprising wash-down pan, heavy duty white plastic hinged seat with flap and chrome plated bolts, 9 litre white vitreous china flushing valve type side inlet cistern complete with chrome plated lever handle, regulation ball valve, unions for inlet and flush pipes, white porcelain enamelled drawn steel flush pipe with rubber joint and fixing pan to concrete floor, cistern to wall, jointing flush pipe to cistern and pan and bolting seat to pan. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per manufacturer's spec's</p> | No | 1 | |
| | <p><u>'Franke (t/a Citimetal)' or equal Architect approved stainless steel sanitary ware:</u></p> | | | |
| 10 | <p>FRANKE STRATOS CODE :STRX671L Double toilet Roll Holder without spindle system for wall mounting. Stainless steel surface satin finished ,with INOX PLUS surface refinement material thickness is 1.5mm, curved front cover, cylinder lock with FRANKEE standard key, inspection window on front, for 2 rolls at a maximum of Ø140mm. Second roll falls when clip is folded up into dispenser includes stainless steel screws & dowels. SIZE - 170 x 343 x 160mm. Supply complete with all fittings, fixings, & brackets. Installation to be as per the manufacturers specifications.</p> | No | 15 | |
| 11 | <p>WASH TROUGH: FRANKE Luxtub model LDL drop on wash trough overall size 600 x 500 x 258mm with one tap hole and fixed to wall on Falcon wall bracket with fixing lugs for wall mounting. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications. (WASTE, TRAP & TAP): Waste: Cobra Watertech 32mm chrome plated slotted sink waste (Code: 301) with 62mm diameter flange, 80mm long shank, plug, chain and stay. Trap: Cobra Watertech 32mm 345/50 CP bottle trap jointed to waste outlet fitting and to PVC pipe. Taps: Cobra Watertech Code: 206EXT-15 - Wall mounted Star extended Bib tap. Chrome plated. Stop valves to be provided to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, & 350mm braided flexi hose</p> | No | 1 | |
| | <p>Carried to Collection</p> | | | R |
| | <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---|---|----------|------|--------|
| 12 | FRANKE STRATOS CODE :STRX618 Soap dispenser for wall mounted liquid soap.\Stainless steel ,surface satin finished ,with INOX PLUS surface refinement material thickness is 1.5mm, curved front cover, cylinder lock with FRANKEE standard key, inspection window on front, suitable for liquid soap & lotion, 1 litre soap tank, push button on front, includes stainless steel screws & dowels. SIZE - 100 x 134 x 304mm. Supply complete with all fittings, fixings, sealants, connectors, brackets and pipes. Installation to be as per the manufacturers specifications | No | 7 | |
| 13 | STRX600 Paper towel dispenser for wall mounting. Stainless steel, surface satin finish, front with INOX PLUS surface refinement material 1.5mm thickness, curved front cover, inspection window, cylinder lock with FRANKEE standard key, loading capacity 300-400Z towels, includes stainless steel screws & dowels. Size : 300 x 134 x 304mm. Supply complete with all fittings, fixings, sealants, and brackets. Installation to be as per the manufacturers specifications | No | 2 | |
| 14 | BIN: FRANKE SRATOS CODE: STRX607: Open bin for wall mounting. Stainless steel, stainless steel surface satin finish, front with INOX PLUS surface refinement material 1.5mm thickness curved front cover, loading capacity 45 litres includes stainless steel screws & dowels. Size 396 x 270 x 520mm. Supply complete with all fittings, fixings, sealants, and brackets. Installation to be as per the manufacturers specifications. | No | 2 | |
| <u>TRAPS ETC</u> | | | | |
| <u>'Cobra Watertech' or equal approved traps etc:</u> | | | | |
| 15 | 32mm Cobra Watertech chrome plated deep seal bottle trap with outlet for 50mm PVC (Code 345/50). | No | 7 | |
| 16 | 110mm P trap with side outlet. | No | 7 | |
| Carried to Collection | | | | R |
| Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>TAPS, VALVES, ETC</u> | | | |
| | <u>'Cobra Watertech' or equal approved taps:</u> | | | |
| 17 | 32mm 303CP Slotted with Ø62mm diameter flange & 80mm long shank + plug Includes, Flanged backnut, Plug, Ø62mm flange, 75mm long shank , 1 ¼" male inlet, CP. Trap: Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers spec's. Stop valves to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, & 350mm braided flexi hose. | No | 7 | |
| 18 | CP345/50 Bottle trap Includes, with 75mm deep re-seal & adjustable telescopic pipe, 1 ¼" female inlet x Ø50 mm outlet for PVC tube. Taps | No | 7 | |
| 19 | Taryn Metered Pillar tap KM2-100FS | No | 7 | |
| | <u>SANITARY PLUMBING</u> | | | |
| | <u>uPVC piping (SABS 967-1987):</u> | | | |
| 20 | 32mm Waste pipes. | m | 40 | |
| 21 | 50mm Waste pipe. | m | 30 | |
| 22 | 110mm Ditto. | m | 15 | |
| 23 | 110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. | m | 60 | |
| | <u>Extra over uPVC piping for:</u> | | | |
| 24 | 32mm Elbow | No | 20 | |
| 25 | 32mm Tee | No | 20 | |
| 26 | 50 x 32mm Reducer | No | 10 | |
| 27 | 50mm Bend. | No | 20 | |
| 28 | 110mm Ditto. | No | 20 | |
| 29 | 110mm Pan connector. | No | 15 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 30 | 110mm Access bend. | No | 20 | |
| | <u>uPVC gulleys</u> | | | |
| 31 | 200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gully (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar. | No | 7 | |
| | <u>Testing:</u> | | | |
| 32 | Testing waste water pipe system. | | Item | |
| | <u>WATER SUPPLIES</u> | | | |
| | <u>Copper pipes:</u> | | | |
| | 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. | | | |
| | <u>Fixing of pipes</u> | | | |
| | Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level | | | |
| | <u>Copper pipes chased in walls:</u> | | | |
| | Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the discription of pipe chased in walls. | | | |
| | Carried to Collection | | | |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>Reducing fittings:</u></p> <p>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.</p> <p><u>Class 2 copper pipes:</u></p> | | | |
| 33 | 15mm Pipe chased into brick walls. | m | 50 | |
| 34 | 22mm Ditto. | m | 50 | |
| | <u>Extra over class 2 copper pipes for capillary fittings:</u> | | | |
| 35 | 15mm Fittings. | No | 30 | |
| 36 | 22mm Fittings. | No | 30 | |
| | <u>Testing:</u> | | | |
| 37 | Testing water supply pipe system. | | Item | |
| | <u>GEYSER</u> | | | |
| | <p><u>Kwikot Megaflo solar panel geyser mounted horizontally on roof timbers, 50 litre, 100 litre & 150 litres Econoflo electric water heater. Drip tray with overflow pipes to be provided. 50% hot water heating requirements must be from the solar panel.</u></p> | | | |
| 38 | Supply and Install complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Stop valves to be provided for hot & cold water. All Installation to be as per the manufacturers specifications | No | 2 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 11

Plumbing and Drainage

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Section 3

New Works to Existing Structures (Provisional)

Bill No. 11

Plumbing and Drainage

| Item No | | Quantity | Rate | Amount |
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| | <u>BILL No. 12</u> | | | |
| | <u>GLAZING</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>GLAZING TO STEEL WITH PUTTY</u> | | | |
| | All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass. | | | |
| | <u>6mm PVB laminated clear safety glass secured into galvanized window with a compatible UV resistant sealant</u> | | | |
| 1 | Panes exceeding 0,1m2 and not exceeding 0,5m2 | m2 | 35 | |
| 2 | Panes exceeding 0,5m2 and not exceeding 1m2 | m2 | 15 | |
| | <u>Obscure safety glass</u> | | | |
| 3 | Panes exceeding 0,1m2 and not exceeding 0,5m2 | m2 | 10 | |
| 4 | Issue of Glazing Certificate. | | Item | |
| | <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> | | | |
| | <u>Franke 8mm heavy duty mirror, 18/10 stainless steel with reflection polished surface, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete. 20mm beveled edges all round</u> | | | |
| 5 | Type 1 = 400 x 600mm high with four screws | No | 4 | |
| 6 | Type 2 = 1800 x 450mm high with six screws | No | 2 | |
| | Carried Forward to Summary of Section No. 3 | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 12 Glazing | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|-------|--------|
| | <p><u>BILL No. 13</u></p> <p><u>PAINTWORK</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</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>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p> <p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.</p> <p><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></p> <p><u>ON FLOATED PLASTER</u></p> <p><u>Prepare and brush surface to remove all loose contaminants and apply one coat PP700 gypsum and plaster primer and two coats "Plascon Polvin" or equal approved emulsion paint for interior use</u></p> | | | |
| 1 | On internal walls | m2 | 1,465 | |
| 2 | On narrow widths | m2 | 250 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats "Plascon Wall 'n All" or equal approved emulsion paint for external use</u> | | | |
| 3 | On external walls | m2 | 688 | |
| 4 | On narrow widths | m2 | 150 | |
| | <u>PAINTWORK ETC TO NEW WORK</u> | | | |
| | <u>ON FLOATED PLASTER</u> | | | |
| | <u>Prepare surface and remove all loose material, apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, two coats PLASCON Wall & All Pure Acrylic paint or equal Architect approved. Colour to Architects Approval.</u> | | | |
| 5 | On internal walls | m2 | 344 | |
| 6 | On narrow widths | m2 | 265 | |
| | <u>Prepare surface and remove all loose material, apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, two coats PLASCON Wall & All Pure Acrylic paint or equal Architect approved. Colour to Architects Approval.</u> | | | |
| 7 | On external walls | m2 | 102 | |
| 8 | On narrow widths | m2 | 29 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>ON FIBRE-CEMENT BOARD SURFACES</u></p> <p><u>Prepare surface and remove all loose material, apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, two coats PLASCON Wall & All Pure Acrylic paint or equal Architect approved. Colour to Architects Approval.</u></p> | | | |
| 9 | Ceilings and cornices. | m2 | 706 | |
| | <p style="text-align: right;">Carried to Collection</p> <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork</p> | | R | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|--------|--------|
| | <u>ON METAL SURFACES</u> | | | |
| | <u>Prepare, touch up manufacturer's priming coat and apply one coat universal undercoat to SABS 681 Type II and two coats 'Velvagro' polyurethane enamel to SABS 630 on:</u> | | | |
| 10 | On window frames | m2 | 130.26 | |
| 11 | On door frames | m2 | 8.00 | |
| | <u>Prepare surfaces and remove all loose material, dust, grease, etc. and apply two coats silvershine aluminium paint on unweathered galvanised steel</u> | | | |
| 12 | On putty only of galvanised steel windows (measured on flat to external side only). | m2 | 12.00 | |
| | <u>ON WOOD</u> | | | |
| | <u>Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats high gloss enamel paint:</u> | | | |
| 13 | On doors | m2 | 17 | |
| 14 | On timber door frames | m2 | 5 | |
| | <u>Three coats superior quality clear gloss varnish</u> | | | |
| 15 | On doors | m2 | 10 | |
| 16 | Skirtings, rails, frames, etc not exceeding 300mm girth | m | 184 | |
| | <u>Prepare and brush surface to remove all loose contaminants and apply two coats "ABE Provonite" or equal approved carbolineum anti-corrosive coal tar paint</u> | | | |
| 17 | On exposed timbers. | m2 | 76 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>ON FIBRE-CEMENT</u> | | | |
| | <u>Prepare and apply two coats pure acrylic roof paint on:</u> | | | |
| 18 | Fascias and barge boards. | m2 | 72 | |
| | Carried to Collection | | | R |
| | Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork | | | |

Section 3

New Works to Existing Structures (Provisional)

Bill No. 13

Paintwork

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New Works to Existing Structures (Provisional)
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| | New Works to Existing Structures (Provisional) | | | |
| | <u>SECTION SUMMARY - New Works to Existing Structures (Provisional)</u> | | | |
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| 4 | Carpentry and Joinery | 72 | | |
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| | <u>SECTION 7</u> | | | |
| | <u>BILL No. 1</u> | | | |
| | <u>WALKWAYS, RAMPS, STAIRS, ETC</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>THE FOLLOWING IN UNCOVERED WALKWAYS</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep:</u> | | | |
| 1 | Reduced levels under floors. | m3 | 14 | |
| | <u>Filling supplied by the contractor under concrete pavement, etc</u> | | | |
| 2 | G5 Base course material compacted to 98% Mod AASHTO density | m3 | 14 | |
| 3 | G7 Natural subbase material, compacted to 95% Mod AASHTO density | m3 | 14 | |
| 4 | Subgrade material, compacted to 93% Mod AASHTO density | m3 | 14 | |
| | <u>Compaction of surfaces.</u> | | | |
| 5 | Compaction of ground surface under roads, parkings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 93% Mod AASHTO density. | m2 | 32 | |
| | <u>Prescribed density tests on filling:</u> | | | |
| 6 | In-situ dry density test. | No | 2 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 1 Walkways, Ramps, Stairs, etc | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Keeping excavations free of water:</u> | | | |
| 7 | Keeping excavations free from mud and all water including subterranean sources. | | Item | |
| | <u>Paving of 60mm Class 25 precast concrete paving blocks on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1058:2006:</u> | | | |
| 8 | Paving to walkways, etc laid to falls. | m2 | 32 | |
| | <u>THE FOLLOWING IN COVERED WALKWAYS</u> | | | |
| | <u>EXCAVATION OTHER THAN BULK</u> | | | |
| | <u>Open face excavation in earth over sloping site</u> | | | |
| 9 | Open face excavation to form platforms under roads and parking areas etc and depositing excavated material over site, including haulage not exceeding 1 km from perimeter of excavations | m3 | 45 | |
| | <u>Excavation in earth not exceeding 2m deep:</u> | | | |
| 10 | Reduced levels under floors. | m3 | 15 | |
| 11 | Holes. | m3 | 1 | |
| | <u>Extra over all excavations for carting away:</u> | | | |
| 12 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 45 | |
| | <u>EARTH FILLING, PAVING, ETC.</u> | | | |
| | <u>Filling supplied by the contractor under concrete pavement, etc</u> | | | |
| 13 | G5 Base course material compacted to 98% Mod AASHTO density | m3 | 15 | |
| 14 | G7 Natural subbase material, compacted to 95% Mod AASHTO density | m3 | 15 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 1 Walkways, Ramps, Stairs, etc | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 15 | Subgrade material, compacted to 93% Mod AASHTO density | m3 | 15 | |
| | <u>Compaction of surfaces:</u> | | | |
| 16 | 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 90% Mod AASHTO density. | m2 | 100 | |
| | <u>Prescribed density tests on filling:</u> | | | |
| 17 | In-situ dry density test. | No | 2 | |
| | <u>Cast in-situ Ref 193 mesh reinforced concrete (20MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 3m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar (See drawing no. C-5-02 attached)</u> | | | |
| 18 | 25MPa concrete 1000 x 150mm V' channel 80mm deep in centre laid in position in ground in 3000mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating etc. | m | 80 | |
| | <u>15Mpa/19mm Concrete</u> | | | |
| 19 | Surface blinding under footings and bases. | m3 | 1 | |
| | <u>30MPa/20mm concrete:</u> | | | |
| 20 | Bases. | m3 | 1 | |
| | <u>Test blocks:</u> | | | |
| 21 | Making and testing set of three 150x150x150mm concrete strength test cubes. | No | 5 | |
| | <u>0.6mm IBR/Supa-clad Chromadeck sheeting at 3 Degrees to be installed by specialist:</u> | | | |
| 22 | Roof covering. | m2 | 120 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 1 Walkways, Ramps, Stairs, etc | | | |

Section 4

External Works (Provisional)

Bill No. 1

Walkways, Ramps, Stairs, etc

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External Works (Provisional)

Bill No. 1

Walkways, Ramps, Stairs, etc

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| <p><u>BILL No. 2</u></p> | | | |
| <p><u>STORMWATER RETICULATION</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</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>Exposed concrete surfaces:</u></p> | | | |
| <p>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.</p> | | | |
| <p><u>Excavations:</u></p> | | | |
| <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> | | | |
| <p>Soft rock and hard rock shall be as defined in Earthworks.</p> | | | |
| <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> | | | |
| <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 4 External Works (Provisional) Bill No. 2 Stormwater reticulation</p> | | | R |

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> | | | |
| <p>SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> | | | |
| <p>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.</p> | | | |
| <p><u>Descriptions of pipes laid in trenches:</u></p> | | | |
| <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor. Note minimum width of trench is 500mm on either side of pipe.</p> | | | |
| <p><u>Descriptions of catchpits, junction boxes, manholes, etc:</u></p> | | | |
| <p>Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 4 External Works (Provisional) Bill No. 2 Stormwater reticulation</p> | | | |
| | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>STORMWATER APRONS</u> | | | |
| | <u>Excavation not exceeding 2m deep</u> | | | |
| 1 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 52 | |
| | <u>Filling supplied by the contractor under concrete pavement, etc</u> | | | |
| 2 | G5 Base course material compacted to 98% Mod AASHTO density | m3 | 22 | |
| 3 | G7 Natural subbase material, compacted to 95% Mod AASHTO density | m3 | 22 | |
| | <u>Coarse river sand filling supplied by the contractor:</u> | | | |
| 4 | Under floors etc. (Provisional). | m3 | 7 | |
| | <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 90% Mod AASHTO density. | m2 | 150 | |
| | <u>Prescribed density tests on filling:</u> | | | |
| 6 | In-situ dry density test. | No | 10 | |
| | <u>Rough Formwork to Sides:</u> | | | |
| 7 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 125 | |
| | <u>Reinforced 25Mpa/19mm Concrete:</u> | | | |
| 8 | Surface beds cast in panels on waterproofing. | m3 | 15 | |
| | <u>Finishing top surfaces of concrete smooth with a wood float:</u> | | | |
| 9 | Surface beds, slabs, etc to falls and currents. | m2 | 150 | |
| | Carried to Collection | | | R |
| | Section 4 | | | |
| | External Works (Provisional) | | | |
| | Bill No. 2 | | | |
| | Stormwater reticulation | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Test blocks:</u> | | | |
| 10 | Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional). | No | 5 | |
| | <u>Fabric reinforcement:</u> | | | |
| 11 | REF. 245 fabric reinforcement in concrete surface beds, slabs, etc. | m2 | 150 | |
| | <u>Waterproofing under Surface beds</u> | | | |
| 12 | 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured). | m2 | 150 | |
| | <u>STORMWATER CHANNELS</u> | | | |
| 13 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 15 | |
| 14 | G5 Base course material compacted to 98% Mod AASHTO density | m3 | 7 | |
| 15 | G7 Natural subbase material, compacted to 95% Mod AASHTO density | m3 | 7 | |
| 16 | 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 90% Mod AASHTO density. | m2 | 49 | |
| | <u>Cast in-situ Ref 193 mesh reinforced concrete (20MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 3m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar (See drawing no. C-5-02 attached)</u> | | | |
| 17 | 25MPa precast concrete stormwater channel size 385 wide x 170mm deep in centre laid in position in ground in 2000mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating etc. | m | 125 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 2 Stormwater reticulation | | | |

| Item No | | Quantity | Rate | Amount |
|--|--|----------|------|--------|
| 18 | Extra for 1000mm angle | No | 5 | |
| 19 | Extra for 1000mm T-intersection | No | 6 | |
| 20 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones | No | 6 | |
| <u>STORMWATER DRAINAGE</u> | | | | |
| <u>Site Clearance, ETC</u> | | | | |
| 21 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 60 | |
| <u>Excavation in earth not exceeding 2m deep:</u> | | | | |
| 22 | Trenches. | m3 | 36 | |
| <u>Extra over all excavations for carting away:</u> | | | | |
| 23 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. | m3 | 36 | |
| <u>Risk of collapse of excavations:</u> | | | | |
| 24 | Sides of trench and hole excavations not exceeding 1,5m deep. | m2 | 10 | |
| 25 | Ditto, but from ground level to exceeding 1,5m. | m2 | 36 | |
| <u>Filling supplied by the contractor under concrete pavement, etc</u> | | | | |
| 26 | G5 Base course material compacted to 98% Mod AASHTO density | m3 | 5 | |
| 27 | G7 Natural subbase material, compacted to 95% Mod AASHTO density | m3 | 5 | |
| <u>Coarse river sand filling supplied by the contractor:</u> | | | | |
| 28 | Under floors etc. (Provisional). | m3 | 5 | |
| Carried to Collection | | | | R |
| Section 4 External Works (Provisional) Bill No. 2 Stormwater reticulation | | | | |

Section 4

External Works (Provisional)

Bill No. 2

Stormwater reticulation

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Section 4
External Works (Provisional)
Bill No. 2
Stormwater reticulation

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>BILL No. 3</u></p> | | | |
| <p><u>SEWER RETICULATION</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> | | | |
| <p><u>SOIL DRAINAGE</u></p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>uPVC pipes and fittings</u></p> | | | |
| <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> | | | |
| <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> | | | |
| <p><u>Excavations:</u></p> | | | |
| <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> | | | |
| <p>Soft rock and hard rock shall be as defined in Earthworks.</p> | | | |
| <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> | | | |
| <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 4 External Works (Provisional) Bill No. 3 Sewer Reticulation</p> | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.</p> <p><u>Descriptions of catchpits, junction boxes, manholes, etc:</u></p> <p>Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p> <p><u>Density testing on filling:</u></p> <p>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.</p> <p><u>BULK SEWER RETICULATION</u></p> <p><u>Earthworks for soil drainage:</u></p> | | | |
| 1 | Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches | m3 | 34 | |
| 2 | Extra over excavation in soft rock. | m3 | 7 | |
| 3 | Extra over excavation in hard rock. | m3 | 14 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 3 Sewer Reticulation | | | |

| Item No | | Quantity | Rate | Amount |
|---|---|----------|------|--------|
| 4 | Unreinforced concrete bedding under pipes | m3 | 4 | |
| 5 | Selected granular filling in bedding under and filling around pipes | m3 | 4 | |
| 6 | Imported backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density (class A material) to pipe trenches. | m3 | 15 | |
| 7 | Selected Backfill material from excavations to drain pipes compacted to 93% Mod ASSHTO density. | m3 | 10 | |
| 8 | Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk) to a dumping site to be found by the Contractor. | m3 | 9 | |
| <u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u> | | | | |
| 9 | 110mm Pipes laid in trenches (trenches elsewhere) | m | 60 | |
| <u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u> | | | | |
| 10 | 110mm Bend | No | 6 | |
| 11 | 110mm Junction | No | 3 | |
| 12 | 110mm Rodding eye | No | 4 | |
| <u>The following in precast concrete manholes.</u> | | | | |
| 13 | Inspection chamber 1 000mm diameter exceeding 1 000mm and not exceeding 2 000mm deep internally, formed of standard precast walling sections to suite height built on 20 MPa base and benching latter finished with 25mm thick grano sloped at 1:6, half round vitrified clay or other approved channel inverts, including 150mm medium duty precast concrete cover slab in 1:2 mortar and Type 4 light duty cover and medium duty cast iron frame. | No | 4 | |
| <u>Sundries:</u> | | | | |
| 14 | Unreinforced concrete encasing to 110mm vertical bend. | m3 | 2 | |
| Carried to Collection | | | | R |
| Section 4 External Works (Provisional) Bill No. 3 Sewer Reticulation | | | | |

| Item No | | | Quantity | Rate | Amount |
|---|---|----|----------|------|--------|
| 15 | 300 x 300 x 75mm Precast concrete inspection eye marker slab set in ground. | No | 4 | | |
| | <u>Testing</u> | | | | |
| 16 | Testing sewer pipe system | | Item | | |
| Carried to Collection | | | | | R |
| Section 4 External Works (Provisional) Bill No. 3 Sewer Reticulation | | | | | |

Section 4

External Works (Provisional)

Bill No. 3

Sewer Reticulation

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Section 4

External Works (Provisional)

Bill No. 3

Sewer Reticulation

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL No. 4</u> | | | |
| | <u>SECURITY FENCING</u> | | | |
| | <u>MODEL PREAMBLES</u> | | | |
| | The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates | | | |
| | <u>SECURITY FENCING AND GATES</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Corrosion protection and Rust control:</u> | | | |
| | Posts, mesh panels for the fence and gate material shall be hot-dip galvanised and then fusion-bond epoxy powder coated (or similar). Colour to Architect's approval. | | | |
| | <u>Guarantees/Warranties:</u> | | | |
| | Ten (10) year anti-corrosion guarantee on all the fence and gate materials to be provided. | | | |
| | Three (3) year anti-vandalism guarantee on all the fence and gate materials to be provided. | | | |
| | <u>Take down and remove:</u> | | | |
| 1 | Existing fence from site | m | 440 | |
| | <u>Site clearance</u> | | | |
| 2 | Clear site for a width 1000mm where new fencing is to be erected including removal of tree shrubs, etc not exceeding 200mm, grubbing up and roughly levelling (new fence measured elsewhere). | m | 440 | |
| | Carried to Collection | | | |
| | Section 4 | | | |
| | External Works (Provisional) | | | |
| | Bill No. 4 | | | |
| | Security Fencing | | | |
| | | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>Fencing and posts</u> | | | |
| 3 | 'Cochrane Steel' ClearVU II or equal Architect approved high density anti-climbing and anti-cut pressed mesh panel fencing 1800mm high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile line galvanised wires with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm taper post 2,45m high at 2,100m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors (elsewhere measured) with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep (elsewhere measured). | m | 440 | |
| 4 | 'Ditto 1500mm high. | m | 100 | |
| 5 | Ditto 2150mm long. | No | 210 | |
| 6 | Ditto 2150mm long. | No | 4 | |
| 7 | Ditto 2150mm long. | No | 5 | |
| | <u>Gates</u> | | | |
| 8 | Single leaf pedestrian swing gate. Size 1000mm x 1800mm high. | No | 1 | |
| 9 | Two leafed vehicular swing gate. Size 4000mm x 1800mm high. | No | 1 | |
| | <u>Bases</u> | | | |
| 10 | Concrete Class 15MPa/19mm concrete in base size 400 x 400 x 600mm deep finished smooth on top, including necessary excavation. | No | 219 | |
| | <u>Padlocks</u> | | | |
| 11 | 63mm Brass five pin tumbler padlock with two keys | No | 2 | |
| 12 | Locking chain 600mm long with 50mm links. | No | 2 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 4 Security Fencing | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Fence Toppings</u> | | | |
| 13 | 100mm high toughened steel Spear spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized and fusion-bond epoxy powder coated (or similar). | m | 440 | |
| | Carried to Collection | | | R |
| | Section 4 External Works (Provisional) Bill No. 4 Security Fencing | | | |

Section 4

External Works (Provisional)

Bill No. 4

Security Fencing

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Section 4
External Works (Provisional)
Bill No. 4
Security Fencing

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><u>SECTION 8</u></p> | | | |
| <p><u>BILL No. 1</u></p> | | | |
| <p><u>PLATFORMS</u></p> | | | |
| <p><u>MODEL PREAMBLES</u></p> | | | |
| <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> | | | |
| <p><u>Proprietary products in descriptions:</u></p> | | | |
| <p>Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for the submission of tenders.</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>Carting away of excavated material:</u></p> | | | |
| <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> | | | |
| <p><u>Dewatering of excavations:</u></p> | | | |
| <p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise.</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Section 5 Civil Works (Provisional) Bill No. 1 Platforms</p> | | | |
| | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p>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.</p> <p><u>Density testing on filling:</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved.</p> <p>When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.</p> <p><u>SITE CLEARANCE ETC</u></p> | | | |
| 1 | Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris. | m2 | 100 | |
| 2 | Stripping average 200mm thick layer of topsoil and stockpiling on site. | m2 | 100 | |
| | <p><u>BULK EXCAVATION</u></p> <p><u>Open face excavation not exceeding 2m deep:</u></p> | | | |
| 3 | Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content. | m3 | 30 | |
| | <p><u>Extra over bulk excavation in earth for excavation in:</u></p> | | | |
| 4 | Soft rock. | m3 | 5 | |
| 5 | Hard rock. | m3 | 5 | |
| | <p><u>Extra over all excavations for carting away:</u></p> | | | |
| 6 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 30 | |
| | Carried to Collection | | | R |
| | <p>Section 5 Civil Works (Provisional) Bill No. 1 Platforms</p> | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>Keeping excavations free of water:</u> | | | |
| 7 | Keeping excavations free of water. | Item | | |
| | <u>EARTH FILLING, ETC.</u> | | | |
| | <u>Selected earth supplied by the Contractor including haulage (material to comply with Pi <10 GM = 1.2)</u> | | | |
| 8 | Over site of G5 base course material compacted to 98% Mod AASHTO density. | m3 | 30 | |
| | <u>Surface Preparation:</u> | | | |
| 9 | Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 90% Mod. AASHTO maximum density, part to falls. | m2 | 100 | |
| | <u>Prescribed density tests on filling</u> | | | |
| 10 | Modified AASHTO Density test. | No | 5 | |
| | Carried to Collection | | | R |
| | Section 5 Civil Works (Provisional) Bill No. 1 Platforms | | | |

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Civil Works (Provisional)

Bill No. 1

Platforms

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Section 5
 Civil Works (Provisional)
 Bill No. 1
 Platforms

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>SECTION 9</u> | | | |
| | <u>BILL No. 1: ELECTRICAL INSTALLATION (PROVISIONAL)</u> | | | |
| | <u>SITE WORKS</u> | | | |
| | <u>NEW DISTRIBUTION KIOSK</u> | | | |
| | <u>Supply, Installation and commissioning of kiosk including marking of all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere. Refer detailed specification Clause C3.</u> | | | |
| | 5 Way Distribution Kiosk-With fibre glass cover | | | |
| 1 | Supply | m | 1 | |
| 2 | Install | m | 1 | |
| | <u>Low Voltage Cable and Installation</u> | | | |
| | Supply, delivery and installation of 400V PVC/SWA/ECC/PVC Copper cables. Installed on surface, on rack, cable sleeve or trench. | | | |
| | 50 mm ² 4 Core | | | |
| 3 | Supply | m | 50 | |
| 4 | Install | m | 50 | |
| | 25 mm ² 2 Core | | | |
| 5 | Supply | m | 230 | |
| 6 | Install | m | 230 | |
| | 16 mm ² 2 Core | | | |
| 7 | Supply | m | 195 | |
| 8 | Install | m | 195 | |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>Low Voltage Cable Termination</u> | | | |
| | Terminations of low voltage PVC/SWA/ECC/PVC cable complete with glands, shrouds, lugs and connection and fire rated glands and shrouds where required. | | | |
| | 50 mm ² 4 Core | | | |
| 9 | Supply | m | 2 | |
| 10 | Install | m | 2 | |
| | 25 mm ² 2 Core | | | |
| 11 | Supply | m | 6 | |
| 12 | Install | m | 6 | |
| | 16 mm ² 2 Core | | | |
| 13 | Supply | m | 6 | |
| 14 | Install | m | 6 | |
| | <u>Cable Trenching and Sleeves</u> | | | |
| | Trenching: excavation backfilling and compaction of above cable to depth of 500mm x 500mm width including PVC marker tape. Soft and hard rock excavation | | | |
| 15 | Hard Rock - Including breaking of tar or concrete. | m3 | 1 | |
| 16 | Earth | m3 | 100 | |
| | 110mm PVC Sleeve | | | |
| 17 | Supply | m | 20 | |
| 18 | Install | m | 20 | |
| | 50mm PVC Sleeve | | | |
| 19 | Supply | m | 28 | |
| 20 | Install | m | 28 | |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

| Item No | | | Quantity | Rate | Amount |
|---------|---|----|----------|------|--------|
| | 75mm PVC round shallow or deep 1,2,3 or 4 way | | | | |
| 29 | Supply | No | 21 | | |
| 30 | Install | No | 21 | | |
| | 20mm Conduit ends | | | | |
| 31 | Supply | No | 20 | | |
| 32 | Install | No | 20 | | |
| | 25mm Conduit ends | | | | |
| 33 | Supply | No | 2 | | |
| 34 | Install | No | 2 | | |
| | 4 x 4 PVC flush box | | | | |
| 35 | Supply | No | 6 | | |
| 36 | Install | No | 6 | | |
| | 2 x 4 PVC flush box | | | | |
| 37 | Supply | No | 4 | | |
| 38 | Install | No | 4 | | |
| | <u>Conductors</u> | | | | |
| | PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting | | | | |
| | 2.5 mm ² | | | | |
| 39 | Supply | No | 500 | | |
| 40 | Install | No | 500 | | |
| | 4 mm ² | | | | |
| 41 | Supply | No | 80 | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

| Item No | | | Quantity | Rate | Amount |
|---------|--|----|----------|------|--------|
| 42 | Install | No | 80 | | |
| | <u>Power Outlets and Switches</u> | | | | |
| | Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere. | | | | |
| | 16A Euro SSO mounted in surface box or galvanised chased-in boxes. | | | | |
| 43 | Supply | No | 6 | | |
| 44 | Install | No | 6 | | |
| | 16A 1 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| 45 | Supply | m | 3 | | |
| 46 | Install | m | 3 | | |
| | 16A 2 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| | <u>LUMINAIRES</u> | | | | |
| | <u>Supply and Installation of luminaires, complete with lamps, electronic ballasts</u> | | | | |
| | TYPE A1 - 1500mm 2 x 58W T5 LED Open channel, surface mounted luminaire supplied complete with lamps. Luminaire to bear the SANS 60598 - safety mark. | | | | |
| 47 | Supply | No | 12 | | |
| 48 | Install | No | 12 | | |
| | TYPE J1-1 x PL26W surface mounted LED bulkhead, supplied complete with lamps and colour trim to be white. | | | | |
| 49 | Supply | No | 9 | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

| Item No | | | Quantity | Rate | Amount |
|---------|--|----|----------|------|--------|
| 50 | Install | No | 9 | | |
| | The Electrical Sub-contractor shall allow to supply and install 1200mm ceiling fans as GEC Type Eurolux Industrial Ceiling Fan 3 Blade 48 Inch. The fans shall be supplied complete with 3 speed controllers. | | | | |
| 51 | Supply | No | 6 | | |
| 52 | Install | No | 6 | | |
| | <u>Strip Existing Redundant Electrical Installation</u> | | | | |
| 53 | Allow a lump sum to strip and make safe the existing electrical installation. | | | | SUM |
| | <u>BLOCK - B - (CLASSROOMS)</u> | | | | |
| | <u>Distribution Board Installation</u> | | | | |
| | Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installation typed legend cards into Distribution Board. Refer detailed specification Clause C5. | | | | |
| | 12 Way surface mounted distribution board | | | | |
| 54 | Supply | No | 1 | | |
| 55 | Install | No | 1 | | |
| | <u>Conduit:</u> | | | | |
| | Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing) | | | | |
| | 20mm PVC | | | | |
| 56 | Supply | m | 224 | | |
| 57 | Install | m | 224 | | |
| | 25mm PVC | | | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

| Item No | | | Quantity | Rate | Amount |
|--|---------|----|----------|------|--------|
| 58 | Supply | m | 30 | | |
| 59 | Install | m | 30 | | |
| <u>Conduit Boxes and Terminations</u> | | | | | |
| Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination. | | | | | |
| 75 mm PVC round shallow or deep 1,2,3 or 4 Way | | | | | |
| 60 | Supply | No | 32 | | |
| 61 | Install | No | 32 | | |
| 20mm Conduit ends | | | | | |
| 62 | Supply | No | 47 | | |
| 63 | Install | No | 47 | | |
| 25mm Conduit ends | | | | | |
| 64 | Supply | No | 6 | | |
| 65 | Install | No | 6 | | |
| 4 x 4 PVC flush box | | | | | |
| 66 | Supply | No | 15 | | |
| 67 | Install | No | 15 | | |
| 2 x 4 PVC flush box | | | | | |
| 68 | Supply | No | 8 | | |
| 69 | Install | No | 8 | | |
| <u>Conductors</u> | | | | | |
| PVC Insulation copper conductors drawn into conduit, wiring trunking or power skirting | | | | | |
| Carried to Collection | | | | | R |
| Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|---------------------------------------|
| <p>Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation</p> | | | |
| | | | <p>Carried to Collection</p> <p>R</p> |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BLOCK - C - (KITCHEN & STORES)</u> | | | |
| | <u>Distribution board installation</u> | | | |
| | Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C6. | | | |
| | 12 way surface mounted distribution board | | | |
| 89 | Supply | No | 1 | |
| 90 | Install | No | 1 | |
| | <u>Conduit:</u> | | | |
| | Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing). | | | |
| | 20mm PVC | | | |
| 91 | Supply | m | 65 | |
| 92 | Install | m | 65 | |
| | <u>Conduit Boxes and Terminations</u> | | | |
| | Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination. | | | |
| | 75mm PVC round shallow or deep 1,2,3 or 4 way | | | |
| 93 | Supply | No | 9 | |
| 94 | Install | No | 9 | |
| | 20mm Conduit ends | | | |
| 95 | Supply | No | 150 | |
| 96 | Install | No | 150 | |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

DBSA ASBESTOS REPLACEMENT PROGRAMME 420
BANGUBUKHOSI PRIMARY SCHOOL

| Item No | | | Quantity | Rate | Amount |
|---|--|----|----------|------|--------|
| 107 | Supply | m | 3 | | |
| 108 | Install | m | 3 | | |
| | 16A 2 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| 109 | Supply | No | 1 | | |
| 110 | Install | No | 1 | | |
| | 40A DP isolator (Stove) | | | | |
| 111 | Supply | No | 1 | | |
| 112 | Install | No | 1 | | |
| Carried to Collection | | | | | R |
| Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BLOCK - D - (CLASSROOM)</u> | | | |
| | <u>Distribution board installation</u> | | | |
| | Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C7. | | | |
| | 12 way surface mounted distribution board | | | |
| 118 | Supply | No | 1 | |
| 119 | Install | No | 1 | |
| | <u>Conduit:</u> | | | |
| | Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing). | | | |
| | 20mm PVC | | | |
| 120 | Supply | m | 110 | |
| 121 | Install | m | 110 | |
| | 25mm PVC | | | |
| 122 | Supply | m | 10 | |
| 123 | Install | m | 10 | |
| | <u>Conduit Boxes and Terminations</u> | | | |
| | Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination. | | | |
| | 75mm PVC round shallow or deep 1,2,3 or 4 way | | | |
| 124 | Supply | No | 150 | |
| 125 | Install | No | 150 | |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

DBSA ASBESTOS REPLACEMENT PROGRAMME 420
BANGUBUKHOSI PRIMARY SCHOOL

| Item No | | | Quantity | Rate | Amount |
|---------|---|----|----------|------|--------|
| | 20mm Conduit ends | | | | |
| 126 | Supply | No | 24 | | |
| 127 | Install | No | 24 | | |
| | 25mm Conduit ends | | | | |
| 128 | Supply | No | 2 | | |
| 129 | Install | No | 2 | | |
| | 4 x 4 PVC flush box | | | | |
| 130 | Supply | No | 6 | | |
| 131 | Install | No | 6 | | |
| | 2 x 4 PVC flush box | | | | |
| 132 | Supply | No | 4 | | |
| 133 | Install | No | 4 | | |
| | <u>Conductors</u> | | | | |
| | PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting | | | | |
| | 2.5 mm ² | | | | |
| 134 | Supply | m | 288 | | |
| 135 | Install | m | 288 | | |
| | 4 mm ² | | | | |
| 136 | Supply | m | 55 | | |
| 137 | Install | m | 55 | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

| Item No | | | Quantity | Rate | Amount |
|---------|--|----|----------|------|--------|
| | <u>BLOCK - E - (ABLUTIONS)</u> | | | | |
| | <u>Distribution board installation</u> | | | | |
| | Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C7. | | | | |
| | 12 way surface mounted distribution board | | | | |
| 151 | Supply | No | 1 | | |
| 152 | Install | No | 1 | | |
| | <u>Conduit:</u> | | | | |
| | Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing). | | | | |
| | 20mm PVC | | | | |
| 153 | Supply | m | 60 | | |
| 154 | Install | m | 60 | | |
| | <u>Conduit Boxes and Terminations</u> | | | | |
| | Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination. | | | | |
| | 75mm PVC round shallow or deep 1,2,3 or 4 way | | | | |
| 155 | Supply | No | 6 | | |
| 156 | Install | No | 6 | | |
| | 20mm Conduit ends | | | | |
| 157 | Supply | No | 200 | | |
| 158 | Install | No | 200 | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

DBSA ASBESTOS REPLACEMENT PROGRAMME 420
BANGUBUKHOSI PRIMARY SCHOOL

| Item No | | | Quantity | Rate | Amount |
|---|--|----|----------|------|--------|
| 170 | Install | No | 3 | | |
| | 16A 1 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| 171 | Supply | m | 2 | | |
| 172 | Install | m | 2 | | |
| | 16A 2 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| 173 | Supply | No | 1 | | |
| 174 | Install | No | 1 | | |
| Carried to Collection | | | | | R |
| Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BLOCK - F - (ABLUTIONS)</u> | | | |
| | <u>Distribution board installation</u> | | | |
| | Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C7. | | | |
| | 12 way surface mounted distribution board | | | |
| 180 | Supply | No | 1 | |
| 181 | Install | No | 1 | |
| | <u>Conduit:</u> | | | |
| | Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing). | | | |
| | 20mm PVC | | | |
| 182 | Supply | m | 68 | |
| 183 | Install | m | 68 | |
| | <u>Conduit Boxes and Terminations</u> | | | |
| | Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination. | | | |
| | 75mm PVC round shallow or deep 1,2,3 or 4 way | | | |
| 184 | Supply | No | 11 | |
| 185 | Install | No | 11 | |
| | 20mm Conduit ends | | | |
| 186 | Supply | No | 10 | |
| 187 | Install | No | 10 | |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

DBSA ASBESTOS REPLACEMENT PROGRAMME 420
BANGUBUKHOSI PRIMARY SCHOOL

| Item No | | | Quantity | Rate | Amount |
|---------|---|----|----------|------|--------|
| | 4 x 4 PVC flush box | | | | |
| 188 | Supply | No | 6 | | |
| 189 | Install | No | 6 | | |
| | 2 x 4 PVC flush box | | | | |
| 190 | Supply | No | 4 | | |
| 191 | Install | No | 4 | | |
| | <u>Conductors</u> | | | | |
| | PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting | | | | |
| | 2.5 mm ² | | | | |
| 192 | Supply | m | 128 | | |
| 193 | Install | m | 128 | | |
| | 4 mm ² | | | | |
| 194 | Supply | m | 72 | | |
| 195 | Install | m | 72 | | |
| | 16A 1 Lever light switch mounted in surface box or galvanised boxes. | | | | |
| 196 | Supply | m | 5 | | |
| 197 | Install | m | 5 | | |
| | Carried to Collection | | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>LUMINAIRES</u> | | | |
| | <u>Supply and Installation of luminaires, complete with lamps, electronic ballasts</u> | | | |
| | TYPE A1 - 1500mm 2 x 58W T5 LED Open channel, surface mounted luminaire supplied complete with lamps. Luminaire to bear the SANS 60598 - safety mark. | | | |
| 198 | Supply | No | 3 | |
| 199 | Install | No | 3 | |
| | TYPE J1-1 x PL26W surface mounted LED bulkhead, supplied complete with lamps and colour trim to be white. | | | |
| 200 | Supply | No | 5 | |
| 201 | Install | No | 5 | |
| | <u>Strip Existing Redundant Electrical Installation</u> | | | |
| 202 | Allow a lump sum to strip and make safe the existing electrical installation. | | | SUM |
| | <u>PROVISIONAL SUMS</u> | | | |
| | A provisional sums are to be expended as directed by the Engineer | | | |
| 203 | Supply and installation of Lightning Protection System | | | SUM |
| 204 | Profit and Attendance | | | % |
| | Carried to Collection | | | R |
| | Section 6 Electrical Installation (Provisional) Bill No. 1 Electrical Installation | | | |

Section 6

Electrical Installation (Provisional)

Bill No. 1

Electrical Installation

COLLECTION

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Section 6

Electrical Installation (Provisional)

Bill No. 1

Electrical Installation

Section 6

Electrical Installation (Provisional)

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Electrical Installation

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Section 6

Electrical Installation (Provisional)

Bill No. 1

Electrical Installation

| Item No | Quantity | Rate | Amount |
|--|---|------|------------|
| <u>SECTION 10</u> | | | |
| <u>BILL No. 1 : PROVISIONAL SUMS</u> | | | |
| <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor. | | | |
| Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto. | | | |
| <u>The following amounts are for work to be carried out by Selected sub-contractors in terms of the Nominated/Selected Subcontract Agreement as prepared by the Joint Building Contracts Committee (JBCC):</u> | | | |
| <u>BUDGETARY ALLOWANCES</u> | | | |
| <u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u> | | | |
| 1 | Provide the sum of R150 000.00 for the appointment of Asbestos Inspection Authority (AIA). | Item | 150,000.00 |
| 2 | Add: Mark-up | % | |
| 3 | Provide the sum of R100 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R10 000.00 per month for the contract duration (10 months) | Item | 100,000.00 |
| 4 | Add: Mark-up | % | |
| 5 | Provide the sum of R150 000.00 for Joinery Fittings. | Item | 150,000.00 |
| Carried to Collection | | | R |
| Section 7 Provisional Sums Bill No. 1 Provisional Sums | | | |

| Item No | | Quantity | Rate | Amount |
|---|--|----------|------|-----------|
| 6 | Provide the sum of R30 000.00 for Signage. | Item | | 30,000.00 |
| Carried to Collection | | | | R |
| Section 7 Provisional Sums Bill No. 1 Provisional Sums | | | | |

Section 7

Provisional Sums

Bill No. 1

Provisional Sums

COLLECTION

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Amount

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Section 7
Provisional Sums
Bill No. 1
Provisional Sums

| Section No | <u>FINAL SUMMARY</u> | Page No | | Amount |
|------------|--|---------|---|--------|
| 1 | Preliminaries | 38 | | |
| 2 | Alterations (Provisional) | 51 | | |
| 3 | New Works to Existing Structures (Provisional) | 103 | | |
| 4 | External Works (Provisional) | 126 | | |
| 5 | Civil Works (Provisional) | 130 | | |
| 6 | Electrical Installation (Provisional) | 157 | | |
| 7 | Provisional Sums | 160 | | |
| | SUB-TOTAL | | R | |
| | <u>CONTINGENCIES</u> | | | |
| | Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required. | | R | |
| | SUB-TOTAL: | | R | |
| | Add Value Added Tax at the rate of 15% | | R | |
| | Carried to Project Final Summary | | R | |