

| Item No |  | Quantity | Amount |
|---------|--|----------|--------|
|         | <b><u>BILL NO. 1</u></b>   |          |        |
|         | <b><u>PRELIMINARIESNOTES</u></b>   |          |        |
| i)      | The agreement is to be the JBCC Series 2000 4.1 Code2101 March 2005 Principal Building Agreement prepared by the Joint Building Contracts Committee edition  |          |        |
| ii)     | The <b>Preliminaries</b> for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities   |          |        |
| iii)    | Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof   |          |        |
| iv)     | These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents |          |        |
| v)      | Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")   |          |        |
| vi)     | Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence  |          |        |
|         | <b><u>PREAMBLES FOR TRADES</u></b>   |          |        |
| (i)     | The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained   |          |        |
| (ii)    | Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project   |          |        |
|         | <b>Carried Forward</b>   | R        |        |
|         | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES  |          |        |

[illegible]

|       |   |      |  |
|-------|---|------|--|
|       | <b>Brought Forward</b>  | R    |  |
|       | <b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>   |      |  |
|       | <b><u>Definitions (A1)</u></b>  |      |  |
| 1/1/1 | Definitions and interpretation (clause 1)F:..... V:.....<br>T:.....   | Item |  |
|       | <b><u>Objective and Preparation (A2)</u></b>  |      |  |
| 1/1/2 | Offer acceptance and performance (clause 2)F:.....<br>V:..... T:.....   | Item |  |
|       | <b><u>Preparation (A3-A14)</u></b>  |      |  |
| 1/1/3 | Documents (clause 3)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/4 | Design responsibility (clause 4)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/5 | Employer's agents (clause 5)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/6 | The principal agent shall:  | Item |  |
| 1/1/7 | - monitor and control progress and scheduling<br><br>- monitor all contract conditions, and<br><br>- coordinate the efforts of the employer's agents,<br><br>the contractor and subcontractors  | Item |  |
| 1/1/8 | The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part | Item |  |
| 1/1/9 | The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process                         | Item |  |
|       | <b>Carried Forward</b>  | R    |  |
|       | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|        | Brought Forward   | R    |  |
|--------|---|------|--|
| 1/1/10 | Site representative (clause 6)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/11 | Compliance with regulations (clause 7)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/12 | Works risk (clause 8)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/13 | Indemnities (clause 9)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/14 | Works insurances (clause 10)<br><br>F:..... V:..... T:.....   | Item |  |
| 1/1/15 | Liability insurances (clause 11)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/16 | Effecting insurance (clause 12)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/17 | State Provisions (clause 13)<br><br>F:..... V:..... T:.....   | Item |  |
| 1/1/18 | Security (clause 14)F:..... V:..... T:.....   | Item |  |
|        | <b><u>Execution (A15-A23)</u></b>   |      |  |
| 1/1/19 | Preparation for and execution of the works (clause 15) fixed F:.....<br>V:..... T:.....   | Item |  |
| 1/1/20 | Access to the works (clause 16)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/21 | Contract instructions (clause 17)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/22 | Setting out of the works (clause 18)F:..... V:.....<br>T:.....  | Item |  |
|        | 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 |      |  |
|        | Carried Forward   | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|        | Brought Forward   | R    |  |
|--------|---|------|--|
| 1/1/23 | Assignment (clause 19)F:..... V:.....<br>T:.....<br><br>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer  | Item |  |
| 1/1/24 | Nominated subcontractors (clause 20)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/25 | Selected subcontractors (clause 21)F:..... V:.....<br>T:.....<br><br>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted<br><br>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors | Item |  |
| 1/1/26 | Employer's Direct Contractors (clause 22)<br><br>F:..... V:..... T:.....  | Item |  |
| 1/1/27 | Contractor's Domestic Sub-Contractors (Clause 23)<br><br>F:..... V:..... T:.....  | Item |  |
|        | <b><u>Completion (A24-A30)</u></b>  |      |  |
| 1/1/28 | Practical completion (clause 24)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/29 | Works completion (clause 25)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/30 | Final completion (clause 26)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/31 | Latent defects liability period (clause 27)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/32 | Sectional completion (clause 28)F:..... V:.....<br>T:.....  | Item |  |
| 1/1/33 | Revision of date of practical completion (clause 29)F:.....<br>V:..... T:.....  | Item |  |
|        | Carried Forward   | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|        |   |      |  |
|--------|---|------|--|
|        | <b>Brought Forward</b>  | R    |  |
|        | The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)   |      |  |
| 1/1/34 | Penalty for non-completion (clause 30)F:..... V:.....<br>T:.....  | Item |  |
|        | <b><u>Payment (A31 - A35)</u></b>   |      |  |
| 1/1/35 | Interim payment to the contractor (clause 31)F:.....<br>V:..... T:.....   | Item |  |
| 1/1/36 | Adjustment to the contract value (clause 32)F:.....<br>V:..... T:.....  | Item |  |
|        | Where prices are submitted by the contractor or nominated/selected subcontractors 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   |      |  |
| 1/1/37 | Recovery of expense and loss (clause 33)F:.....<br>V:..... T:.....  | Item |  |
| 1/1/38 | Final account and final payment (clause 34)F:.....<br>V:..... T:.....   | Item |  |
|        | The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion  |      |  |
|        | The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account |      |  |
| 1/1/39 | Payment to other parties (clause 35)<br><br>F:..... V:..... T:.....   | Item |  |
|        | <b>Carried Forward</b>  | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|        |   |      |  |
|--------|---|------|--|
|        | <b>Brought Forward</b>  | R    |  |
|        | <b><u>Cancellation (A36-A39)</u></b>  |      |  |
| 1/1/40 | Cancellation by employer - contractor's default (clause 36)F:.....<br>V:..... T:.....   | Item |  |
| 1/1/41 | Cancellation by employer - loss and damage (clause 37)F:.....<br>V:..... T:.....  | Item |  |
| 1/1/42 | Cancellation by contractor - employer's default (clause 38)F:.....<br>V:..... T:.....   | Item |  |
| 1/1/43 | Cancellation - cessation of the works (clause 39)F:.....<br>V:..... T:.....   | Item |  |
|        | <b><u>Dispute (A40)</u></b>   |      |  |
| 1/1/44 | Dispute Settlement (clause 40)<br><br>F:..... V:..... T:.....   | Item |  |
|        | <b><u>Substitute Provisions (A41)</u></b>   |      |  |
| 1/1/45 | State clauses (Clause 41)<br><br>F:..... V:..... T:.....<br><br>Information necessary for the completion of those clauses contained in the<br>schedule which are necessary for tender purposes is given hereunder | Item |  |
|        | <b><u>Contract variables (A41)</u></b>  |      |  |
|        | <b><u>THE SCHEDULE</u></b><br><br>Information necessary for completion of those clauses contained in the schedule<br>which are necessary for tender purposes is given hereunder                                   |      |  |
| 1/1/46 | Pre-tender information (clause 41)<br><br>F:..... V:..... T:.....   | Item |  |
|        | <b>Carried Forward</b>  | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|   |                        |   |  |
|---|------------------------|---|--|
|   | <b>Brought Forward</b> | R |  |
| <b><u>41.1 CONTRACTING AND OTHER PARTIES</u></b>  |                        |   |  |
| <p>41.1.1<br/>Employer:<br/>Department of Education and Training<br/>North West Province</p> <p>Address:<br/>Old Mmabatho High School Hostels<br/>1305 Albert Lithuli Drive,<br/>Mmabatho, 2735</p> <p>Private Bag x 2044<br/>Mmabatho, 2735</p> <p>Tel. +27 (0) 18 389 8000<br/>Fax. +27 (0) 18 384 3316</p> |                        |   |  |
| <p>41.1.2<br/>Project Engineers<br/>Rendeals Four Consulting</p> <p>Address:<br/>Unit 10, Adlo Park<br/>40 First Street<br/>Mafikeng, Industrial Site<br/>2745</p> <p>Tel +27(0) 18 381 5148/9<br/>Fax +27(0) 18 381 5160</p> <p>E-mail info@rendeals4.co.za</p>  |                        |   |  |
| <p>41.1.3<br/>Agents service:Architect<br/><br/>KA Architectural Services</p> <p>Address:<br/>21 Emerald Street<br/>Riviera Park<br/>Mafikeng, 2745</p> <p>Tel +27(0)18 381 1012 / 083 331 8535<br/>Fax +27(0) 86 669 5095</p> <p>E-mail: kopano.kvm@gmail.co.za</p>  |                        |   |  |
|   | <b>Carried Forward</b> | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Bill No. 1<br/>PRELIMINARIES</p>   |                        |   |  |



|  |                        |   |  |
|--|------------------------|---|--|
|  | <b>Brought Forward</b> | R |  |
| <p>41.1.4<br/>Quantity Surveyors<br/>Rendeals Four Consulting</p> <p>Address:<br/>Unit 10, Adlo Park<br/>40 First Street<br/>Mafikeng, Industrial Site<br/>2745</p> <p>Tel +27(0) 18 381 5148/9<br/>Fax +27(0) 18 381 5160</p> <p>E-mail info@rendeals4.co.za</p> <p>41.1.5<br/>Structural and Civil Engineers<br/>Rendeals Four Consulting</p> <p>Address:<br/>Unit 10, Adlo Park<br/>40 First Street<br/>Mafikeng, Industrial Site<br/>2745</p> <p>Tel +27(0) 18 381 5148/9<br/>Fax +27(0) 18 381 5160</p> <p>E-mail info@rendeals4.co.za</p> <p>41.1.6<br/>Agents service: Electrical / Mechanical Engineer<br/>Muteo Consulting</p> <p>Unit 10, Adlo Park<br/>40 First Street<br/>Mafikeng, Industrial Site<br/>2745</p> <p>Tel +27(0) 18 381 5148/9<br/>Fax +27(0) 18 381 5160</p> <p>E-mail mail@muteo.co.za</p> |                        |   |  |
|  | <b>Carried Forward</b> | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Bill No. 1<br/>PRELIMINARIES</p>  |                        |   |  |

|   |                                      |  |
|---|--------------------------------------|--|
| <p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>41.2 CONTRACT DETAILS</u></b></p> <p>41.2.1 Works Description:</p> <p>Schweizer Reneke Primary School</p> <p>41.2.2 Site Description: The site is situated within the teritory of Mamusa Local Municipality - Ipelegeng Ext.4</p> <p>41.2.3 Work or installations by direct contractors:</p> <p>Construction of Schweizer Reneke Primary School</p> <p>41.2.4 This agreement is for a government contract: Yes</p> <p>41.2.5 Date on which possession of the site is intended to be given:</p> <p>To be confirmed</p> <p>41.2.6 Period for the commencement of the works after the contractor takes possession of the site</p> <p style="text-align: right;">Ten (10) <i>working days</i></p> <p>41.2.7 Intended date of practical completeion and the penalty per calendar day for the works <b>as a whole</b></p> <p style="text-align: right;">..... <i>Date</i></p> <p style="text-align: right;">R 10,000.00 <i>Penalty Amount per Day</i></p> <p>41.2.8 Intended date of practical completion and the penalty per calender day for the works in <b>sections</b>:</p> <p style="text-align: right;"><b>Section 1</b></p> <p style="text-align: right;">..... <i>Date</i></p> <p style="text-align: right;">R..... <i>Penalty Amount</i></p> <p>41.2.9 The law applicable to this agreement shall be that of</p> <p style="text-align: right;">General Law including Commercial activities (<i>country</i>)</p> <p><b><u>41.3 INSURANCES</u></b></p> <p>41.3.1 Contract works insurance to be effected by: Contractor</p> <p><i>For the Sum of R 10,000,000.00</i></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1<br/>Preliminaries<br/>Bill No. 1<br/>PRELIMINARIES</p> | <p style="text-align: center;">R</p> |  |
|---|--------------------------------------|--|

|   |   |   |  |
|---|---|---|--|
|   | <b>Brought Forward</b>  | R |  |
| 41.3.2  | Supplementary insurance is required: Yes  |   |  |
| 41.3.3  | Public liability insurance to be effected by: Contractor  |   |  |
|   | <i>For the Sum of R 1,000,000.00</i>  |   |  |
| <b>41.4</b>   | <b><u>DOCUMENTS</u></b>   |   |  |
| 41.4.1  | Waivers of <b>contractors lien</b> or right of continuing possession is required: Yes   |   |  |
| 41.4.2  | Number of construction document copies to be supplied to the <b>contractor</b> free of charge: 2 (Two)  |   |  |
| 41.4.3  | <b>Bills of Quantities/Lump sum document</b> schedule of rates drawn up in accordance with: Standard system of measuring Building work            |   |  |
| 41.4.4  | On acceptance of the tender the bills of quantities/lump sum document is to be submitted within <b>working days</b> : 7 working days              |   |  |
| 41.4.5  | JBCC Engineering General Conditions are to be included in the <b>contract documents</b> : Yes   |   |  |
| 41.4.6  | The contract value is to be adjusted using escalation adjustment indices: <b>Yes</b><br>the contract will be variable, is subject to CPAP         |   |  |
|   | Base Month: To be confirmed   |   |  |
| 41.4.7  | Details of changes made to the provision of JBCC standard documentation:<br><br>Refer to standard notes attached to this document in Section C1.2 |   |  |
|   | <b>Carried Forward</b>  | R |  |
| Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES |   |   |  |

|        |  |                 |      |  |
|--------|--|-----------------|------|--|
|        |  | Brought Forward | R    |  |
|        | <b><u>SECTION B: PRELIMINARIES</u></b>   |                 |      |  |
|        | <b><u>Definition and interpretation (B1)</u></b>                                 |                 |      |  |
| 1/1/47 | Definition and interpretation (B1.1 - B1.6.5)F:.....<br>V:..... T:.....          |                 | Item |  |
|        | <b><u>Documents (B2)</u></b>   |                 |      |  |
| 1/1/48 | Checking of documents (B2.1)F:..... V:.....<br>T:.....                           |                 | Item |  |
| 1/1/49 | Provisional bills of quantities (B2.2)F:..... V:.....<br>T:.....                 |                 | Item |  |
| 1/1/50 | Availability of construction documentation (B2.3)<br><br>F:..... V:..... T:..... |                 | Item |  |
| 1/1/51 | Interests of agents (B2.4)F:..... V:.....<br>T:.....                             |                 | Item |  |
| 1/1/52 | Priced documents (B2.5)F:..... V:.....<br>T:.....                                |                 | Item |  |
| 1/1/53 | Tender submission (B2.6)F:..... V:.....<br>T:.....                               |                 | Item |  |
|        | <b><u>The site (B3)</u></b>  |                 |      |  |
| 1/1/54 | Defined works area (B3.1)F:..... V:.....<br>T:.....                              |                 | Item |  |
| 1/1/55 | Geotechnical investigation (B3.2)F:..... V:.....<br>T:.....                      |                 | Item |  |
| 1/1/56 | Inspection of the site (B3.3)F:..... V:.....<br>T:.....                          |                 | Item |  |
| 1/1/57 | Existing premises occupied (B3.4)F:..... V:.....<br>T:.....                      |                 | Item |  |
| 1/1/58 | Previous work - dimensional accuracy (B3.5)F:.....<br>V:..... T:.....            |                 | Item |  |
| 1/1/59 | Previous work - defects (B3.6)F:..... V:.....<br>T:.....                         |                 | Item |  |
|        |  | Carried Forward | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES                    |                 |      |  |

|   | Brought Forward  | R    |  |
|---|--|------|--|
| 1/1/60  | Services - known (B3.7)F:..... V:.....<br>T:.....                        | Item |  |
| 1/1/61  | Services - unknown (B3.8)F:..... V:.....<br>T:.....                      | Item |  |
| 1/1/62  | Protection of trees etc (B3.9)F:..... V:.....<br>T:.....                 | Item |  |
| 1/1/63  | Articles of value (B3.10)F:..... V:.....<br>T:.....                      | Item |  |
| 1/1/64  | Inspection of adjoining properties etc (B3.11)F:.....<br>V:..... T:..... | Item |  |
|   | <b><u>Management of contract (B4)</u></b>                                |      |  |
| 1/1/65  | Management of the works (B4.1)F:..... V:.....<br>T:.....                 | Item |  |
| 1/1/66  | Programming for the works (B4.2)F:..... V:.....<br>T:.....               | Item |  |
| 1/1/67  | Progress meetings (B4.3)F:..... V:.....<br>T:.....                       | Item |  |
| 1/1/68  | Technical meetings (B4.4)F:..... V:.....<br>T:.....                      | Item |  |
|   | <b><u>Samples and shop drawings (B5)</u></b>                             |      |  |
| 1/1/69  | Samples of materials (B5.1)F:..... V:.....<br>T:.....                    | Item |  |
| 1/1/70  | Workmanship samples (B5.2)F:..... V:.....<br>T:.....                     | Item |  |
| 1/1/71  | Shop drawings (B5.3)F:..... V:.....<br>T:.....                           | Item |  |
|   | <b><u>Temporary works and plant (B6)</u></b>                             |      |  |
| 1/1/72  | Deposits and fees (B6.1)F:..... V:.....<br>T:.....                       | Item |  |
| 1/1/73  | Enclosure of the works (B6.2)F:..... V:.....<br>T:.....                  | Item |  |
|   | <b>Carried Forward</b>   | R    |  |
| Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES |  |      |  |

|        | Brought Forward  | R    |  |
|--------|--|------|--|
| 1/1/74 | Advertising (B6.3)F:..... V:..... T:.....                              | Item |  |
| 1/1/75 | Plant, equipment, sheds and offices (B6.4)F:.....<br>V:..... T:.....   | Item |  |
| 1/1/76 | Main notice board (B6.5)F:..... V:.....<br>T:.....                     | Item |  |
| 1/1/77 | Subcontractors notice board (B6.6)F:..... V:.....<br>T:.....           | Item |  |
|        | <b><u>Temporary services (B7)</u></b>                                  |      |  |
| 1/1/78 | Location (B7.1)F:..... V:..... T:.....                                 | Item |  |
| 1/1/79 | Water (B7.2) F:..... V:..... T:.....                                   | Item |  |
| 1/1/80 | Electricity (B7.3) F:..... V:..... T:.....                             | Item |  |
| 1/1/81 | Telecommunication equipment (B7.4)<br>F:..... V:..... T:.....          | Item |  |
| 1/1/82 | Ablution facilities (B7.5) F:..... V:..... T:.....                     | Item |  |
|        | <b><u>Prime cost amounts (B8)</u></b>                                  |      |  |
| 1/1/83 | Responsibility for prime cost amounts (B8.1)F:.....<br>V:..... T:..... | Item |  |
|        | <b><u>Attendance on N/S Subcontractors (B9)</u></b>                    |      |  |
| 1/1/84 | General attendance (B9.1)F:..... V:.....<br>T:.....                    | Item |  |
| 1/1/85 | Special attendance (B9.2)F:..... V:.....<br>T:.....                    | Item |  |
| 1/1/86 | Commissioning - Fuel, water and power (B9.3)F:.....<br>V:..... T:..... | Item |  |
|        | <b><u>Financial aspects (B10)</u></b>                                  |      |  |
|        | Statutory taxes, duties and levies (B10.1)F:.....<br>V:..... T:.....   | Item |  |
|        | Carried Forward  | R    |  |
|        | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES          |      |  |

|         | Brought Forward   | R    |  |
|---------|---|------|--|
| 1/1/87  | Payment of preliminaries (B10.2)<br>F:..... V:..... T:.....                                   | Item |  |
| 1/1/88  | Adjustment of preliminaries (B10.3)F:..... V:.....<br>T:.....                                 | Item |  |
| 1/1/89  | Payment certificate cash flow (B10.4)F:..... V:.....<br>T:.....                               | Item |  |
|         | <b><u>General (B11)</u></b>   |      |  |
| 1/1/90  | Protection of works (B11.1)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/91  | Protection/isolation of existing/sectionally occupied works<br>(B11.2)F:..... V:..... T:..... | Item |  |
| 1/1/92  | Site security (B11.3)F:..... V:..... T:.....  | Item |  |
| 1/1/93  | Notice before covering work (B11.4)F:..... V:.....<br>T:.....                                 | Item |  |
| 1/1/94  | Disturbance (B11.5)F:..... V:..... T:.....  | Item |  |
| 1/1/95  | Works cleaning and clearing (B11.6)F:..... V:.....<br>T:.....                                 | Item |  |
| 1/1/96  | Vermin (B11.7)F:..... V:..... T:.....   | Item |  |
| 1/1/97  | Overhand work (B11.8)F:..... V:.....<br>T:.....   | Item |  |
| 1/1/98  | Instruction manuals and guarantees (B11.10)<br><br>F:..... V:..... T:.....                    | Item |  |
| 1/1/99  | As built information (B11.11)<br><br>F:..... V:..... T:.....                                  | Item |  |
| 1/1/100 | Tenant Installations (B11.12)<br><br>F:..... V:..... T:.....                                  | Item |  |
|         | Carried Forward   | R    |  |
|         | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES                                 |      |  |

|         |   |                 |      |  |
|---------|---|-----------------|------|--|
|         |   | Brought Forward | R    |  |
|         | <b><u>Schedule of variables (B12)</u></b>   |                 |      |  |
| 1/1/101 | Pre-tender information (B12.1)F:..... V:.....<br>T:.....  |                 | Item |  |
|         | 12.1.1 Provisional bills of quantities (B2.2)<br>The quantities are provisional: Yes                    |                 |      |  |
|         | 12.1.2 Availability of construction documentation (B2.3)<br>Construction documentation is complete: Yes |                 |      |  |
|         | 12.1.3 Interest of agents (B2.4)<br>.....<br>.....<br>.....   |                 |      |  |
|         | 12.1.4 Defined works area (B3.1)<br>.....<br>.....<br>.....   |                 |      |  |
|         | 12.1.5 Geotechnical investigation (B3.2)<br>.....<br>.....<br>.....                                     |                 |      |  |
|         | 12.1.6 Existing premises occupied (B3.4)<br>.....<br>.....<br>.....                                     |                 |      |  |
|         |   | Carried Forward | R    |  |
|         | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |                 |      |  |



|   |                                      |  |  |
|---|--------------------------------------|--|--|
| <p style="text-align: right;"><b>Brought Forward</b></p> <p>The Tenderer is notified that the school will remain functional during the works. All construction activities are to be programmed around the functioning of the school, and in a manner that does not pose risks to learners, teachers and school staff.</p> <p>12.1.7 Previous work - dimensional accuracy (B3.4)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>12.1.8 Previous work - defects (B3.5)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>12.1.9 Services - known (B3.7)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>12.1.10 Protection of trees (B3.9)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>All trees should be protected and only on instruction of the Principal Agent may any trees be removed</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1<br/> Preliminaries<br/> Bill No. 1<br/> PRELIMINARIES</p> | <p style="text-align: center;">R</p> |  |  |
|   | <p style="text-align: center;">R</p> |  |  |

|   |  |   |  |
|---|--|---|--|
|   | <b>Brought Forward</b>                               | R |  |
| 12.1.11   | Inspection of adjoining properties (B3.11)           |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
| 12.1.12   | Enclosure of the works (B6.2)                        |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
| 12.1.13   | Offices (B6.4.3)                                     |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
|   | An office for the clerck of works should be provided |   |  |
| 12.1.14   | Main notice board (B6.5)                             |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
|   | .....  |   |  |
| 12.1.15   | Subcontractors notice board (B6.6)                   |   |  |
|   | A notice board is required                           |   |  |
|   | No   |   |  |
| 12.1.16   | Water (B7.2)   |   |  |
|   | Alternative Selected:                                |   |  |
| 12.1.17   | Electricity (B7.3)                                   |   |  |
|   | Alternative selected:                                |   |  |
|   | <b>Carried Forward</b>                               | R |  |
| Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES |  |   |  |

|         |  |      |  |
|---------|--|------|--|
|         | <b>Brought Forward</b>   | R    |  |
|         | 12.1.18 Telecommunications (B7.4)<br>Alternative selected:                                       |      |  |
|         | 12.1.19 Ablution facilities (B7.5)<br>Alternative selected:                                      |      |  |
|         | 12.1.20 Protection of existing/sectionally occupied works<br><br>.....<br><br>.....<br><br>..... |      |  |
|         | 12.1.21 Special attendance (B9.2)<br><br>Subcontractor (1) details:<br><br>N/A                   |      |  |
|         | 12.1.22 Protection of the works (B11.1)<br><br>.....<br><br>.....<br><br>.....                   |      |  |
|         | 12.1.23 Disturbance (B11.5)<br><br>.....<br><br>.....<br><br>.....                               |      |  |
|         | 12.1.24 Environmental Disturbance (B11.6)<br><br>.....<br><br>.....<br><br>.....                 |      |  |
| 1/1/102 | Post tender information (B12.2)F:..... V:.....<br>T:.....  | Item |  |
|         | <b>Carried Forward</b>   | R    |  |
|         | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES                                    |      |  |

[illegible]

|         |   |      |  |
|---------|---|------|--|
|         | <b>Brought Forward</b>  | R    |  |
|         | <b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>   |      |  |
|         | Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included |      |  |
| 1/1/103 | Black economic empowerment and training   |      |  |
|         | F:..... V:..... T:.....   | Item |  |
| 1/1/104 | Proprietary branded products  |      |  |
|         | F:..... V:..... T:.....   | Item |  |
|         | The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative   |      |  |
| 1/1/105 | Contract instructions   |      |  |
|         | F:..... V:..... T:.....   | Item |  |
|         | Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor   |      |  |
| 1/1/106 | Labour record   |      |  |
|         | F:..... V:..... T:.....   | Item |  |
|         | At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week   |      |  |
| 1/1/107 | Plant record  |      |  |
|         | F:..... V:..... T:.....   | Item |  |
|         | 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 used on the works each day of that week   |      |  |
|         | <b>Carried Forward</b>  | R    |  |
|         | Section No. 1<br>Preliminaries<br>Bill No. 1<br>PRELIMINARIES   |      |  |

|         |   |      |  |
|---------|---|------|--|
|         | <b>Brought Forward</b>  | R    |  |
| 1/1/108 | <p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p> | Item |  |
| 1/1/109 | <p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by there contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>   | Item |  |
| 1/1/110 | <p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>   | Item |  |
| 1/1/111 | <p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>  | Item |  |
|         | <b>Carried Forward</b>  | R    |  |
|         | <p>Section No. 1<br/>Preliminaries<br/>Bill No. 1<br/>PRELIMINARIES</p>   |      |  |

|         |  |                        |      |  |
|---------|--|------------------------|------|--|
|         |  | <b>Brought Forward</b> | R    |  |
|         | Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained  |                        |      |  |
|         | <b><u>COMPLIANCE WITH COVID-19 HEALTH AND SAFETY REGULATIONS</u></b>   |                        |      |  |
|         | <b><u>NOTE:</u></b>  |                        |      |  |
| 1/1/112 | <p>The <b>contractor</b> shall comply with all the requirements set out in The Department of Labour issued COVID- 19 Occupational Health and Safety Measures in Workplaces COVID- 19 (C 19 OHS), 2020 as per Government Gazzette 43257 of 29th April 2020</p> <p>It is required of the <b>contractor</b> to thoroughly study the <b>latest</b> Occupational Health and Safety Measures in Workplaces COVID- 19 (C 19 OHS), 2020 that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b>.</p> <p>The <b>contractor</b> must take note that compliance with the Occupational Health and Safety Measures in Workplaces COVID- 19 (C 19 OHS), 2020, is compulsory. In the event of partial or total noncompliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Measures in Workplaces COVID- 19 (C 19 OHS), 2020 is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> |                        |      |  |
|         |  |                        | Item |  |
|         |  | <b>Carried Forward</b> | R    |  |
|         | <p>Section No. 1<br/>Preliminaries<br/>Bill No. 1<br/>PRELIMINARIES</p>  |                        |      |  |

[illegible]



| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION2</u></b></p> <p><b><u>BILL No.1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><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 of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <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> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2<br/>Alterations<br/>Bill No. 1<br/>RENOVATIONS</p> |          |      |        |
|         |   |          | R    |        |

| Brought Forward |   |    |       | R |
|-----------------|---|----|-------|---|
|                 | Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc  |    |       |   |
|                 | Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing   |    |       |   |
|                 | With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork  |    |       |   |
|                 | Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary   |    |       |   |
|                 | The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) |    |       |   |
|                 | <b><u>RENOVATION OF EXISTING STRUCTURES</u></b>   |    |       |   |
| 2/1/1           | Digging Test Pits to expose Foundations and Backfill  | No | 90    |   |
| 2/1/2           | Breaking up removal of Surface Beds   | m2 | 2 441 |   |
| 2/1/3           | Carefully take out Door 813 x 1250  | m2 | 51    |   |
| 2/1/4           | Carefully take out Steel Window 900 x 1250  | m2 | 245   |   |
| 2/1/5           | Carefully take down One Brick Wall  | m2 | 1 675 |   |
| 2/1/6           | Carefully take down half brick wall   | m2 | 56    |   |
| 2/1/7           | Excavation n/e 2m deep  | m3 | 472   |   |
| 2/1/8           | Extra over all excavations for Cart away  | m3 | 472   |   |
| 2/1/9           | Risk of collapse n/e 1.5m deep  | m2 | 524   |   |
| 2/1/10          | Keep excavation free of water   |    | Item  |   |
| 2/1/11          | Clear and remove weeds, vegetation under floor  | m2 | 458   |   |
|                 | <b>Carried Forward</b>  |    |       | R |
|                 | Section No. 2<br>Alterations<br>Bill No. 1<br>RENOVATIONS   |    |       |   |

|   | Brought Forward  |   | R   |
|---|--|---|-----|
| 2/1/12  | Carefully take out, remove, inspect the Cable Sleeves      | m | 294 |
| 2/1/13  | Carefully take out, remove, inspect UPV'S                  | m | 369 |
| 2/1/14  | Carefully take out, remove, inspect the Electrcal Conduits | m | 318 |
| Carried to Final Summary                                  |  |   | R   |
| Section No. 2<br>Alterations<br>Bill No. 1<br>RENOVATIONS |  |   |     |

| Item No |  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>SECTION 3</u></b>  |          |       |        |
|         | <b><u>BILL No.1</u></b>  |          |       |        |
|         | <b><u>EARTHWORKS (PROVISIONAL)</u></b>   |          |       |        |
|         | <b><u>PREAMBLES</u></b>  |          |       |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades   |          |       |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |          |       |        |
|         | <b><u>NOTE: Unless otherwise stated herein all items shall be deemed to fall into Work Group No.104 for JBCC CPAP purposes.</u></b>  |          |       |        |
|         | <b><u>Nature of ground</u></b>   |          |       |        |
|         | Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes.      |          |       |        |
|         | <b><u>Carting away of excavated material</u></b>   |          |       |        |
|         | Description 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. |          |       |        |
|         | <b><u>BULK EARTHWORKS</u></b>  |          |       |        |
|         | <b><u>FOUNDATIONS (PROVISIONAL)</u></b>  |          |       |        |
|         | <b><u>BULK EXCAVATIONS FOR PLATFORM</u></b>  |          |       |        |
|         | <b><u>Grabbing and removal of topsoil</u></b>  |          |       |        |
| 3/1/1   | Remove topsoil to average depth of 150mm for platform  | m2       | 6 785 |        |
| 3/1/2   | G5 materials for platform and compacted to 95% Mod AASHTO in layers of 150mm   | m3       | 3 628 |        |
|         | <b>Carried Forward</b>   |          | R     |        |
|         | Section No. 3<br>New School<br>Bill No. 1<br>EARTHWORKS  |          |       |        |

| Brought Forward  |   |    | R     |
|--|---|----|-------|
| <b><u>EARTHWORKS</u></b>   |   |    |       |
| <b><u>FOUNDATIONS (PROVISIONAL)</u></b>  |   |    |       |
| <b><u>SITE CLEARANCE ETC</u></b>   |   |    |       |
| <b><u>Site clearance</u></b>   |   |    |       |
| 3/1/3  | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  | m2 | 5 991 |
| 3/1/4  | Clearing all bush trees to engineer's satisfaction  | m2 | 1 049 |
| <b><u>Excavate in compacted pickable material as defined not exceeding 2m deep below reduced or filled up ground level, part return, fill in and ram and remainder deposit on site where directed.</u></b> |   |    |       |
| 3/1/5  | Excavate for surface trenches.  | m3 | 1 811 |
| <b><u>Sundries</u></b>   |   |    |       |
| 3/1/6  | Extra over all excavations in compacted pickable material for excavation in soft rock as described.   | m3 | 115   |
| 3/1/7  | Extra over all excavations in compacted pickable material for excavation in hard rock as described.   | m3 | 324   |
| 3/1/8  | Extra over all excavations for carting away excavated material as described (Contractor to allow for bulking).  | m3 | 605   |
| 3/1/9  | Allow for the risk of collapse to sides of excavation from ground level not exceeding 1,5 m deep.   | m2 | 2 206 |
| 3/1/10   | Allow for keeping excavations free of water and mud by pumping or bailing.  |    | Item  |
| <b><u>FILLING, ETC:</u></b>  |   |    |       |
| 3/1/11   | Excavated material in backfill, saturated to optimum moisture content and compacted to 95% modified AASHTO into trenches, including haulage not exceeding 100 m from the perimeter of the excavation. | m3 | 1 501 |
| 3/1/12   | 50 mm Thick layer of approved clean sand filling under surface beds.  | m2 | 1 507 |
| Carried Forward  |   |    | R     |
| Section No. 3<br>New School<br>Bill No. 1<br>EARTHWORKS  |   |    |       |

| Brought Forward |   |    |       | R |  |
|-----------------|---|----|-------|---|--|
|                 | <b><u>Coarse river sand filling supplied by the contractor</u></b>  |    |       |   |  |
| 3/1/13          | Under floors etc  | m3 | 210   |   |  |
|                 | <b><u>Compaction of surfaces</u></b>  |    |       |   |  |
| 3/1/14          | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 4 152 |   |  |
|                 | <b><u>Test</u></b>  |    |       |   |  |
|                 | <b><u>Prescribed density tests on filling</u></b>   |    |       |   |  |
| 3/1/15          | "Modified AASHTO Density" test  | No | 128   |   |  |
|                 | <b><u>SOIL POISONING</u></b>  |    |       |   |  |
|                 | <b><u>Soil insecticide</u></b>  |    |       |   |  |
| 3/1/16          | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming   | m2 | 7 734 |   |  |
| 3/1/17          | To bottoms and sides of trenches etc  | m2 | 1 507 |   |  |
|                 | <b>Carried Forward to Summary of Section No. 3</b>  |    |       | R |  |
|                 | Section No. 3   |    |       |   |  |
|                 | New School  |    |       |   |  |
|                 | Bill No. 1  |    |       |   |  |
|                 | EARTHWORKS  |    |       |   |  |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>CONCRETE</u></b></p> <p><b><u>NOTE: Unless otherwise stated herein all items shall be deemed to fall into Work Group No.110 for JBCC CPAP purposes.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> |          |      |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p>   |          | R    |        |
|         | <p>Section No. 3<br/>New School<br/>Bill No. 2<br/>CONCRETE, FORMWORK AND REINFORCEMENT</p>  |          |      |        |

| Brought Forward |   |    | R     |  |
|-----------------|---|----|-------|--|
|                 | Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described  |    |       |  |
|                 | Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" |    |       |  |
|                 | <b><u>REINFORCED CONCRETE</u></b>   |    |       |  |
|                 | <b><u>25MPa/19mm concrete</u></b>   |    |       |  |
| 3/2/1           | Strip footings  | m3 | 605   |  |
| 3/2/2           | Surface beds  | m3 | 595   |  |
|                 | <b><u>TEST CUBES</u></b>  |    |       |  |
| 3/2/3           | Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)   | No | 160   |  |
|                 | <b><u>CONCRETE SUNDRIES</u></b>   |    |       |  |
|                 | <b><u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u></b>   |    |       |  |
| 3/2/4           | Surface beds, slabs, etc  | m2 | 4 636 |  |
|                 | <b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY 1)</u></b>  |    |       |  |
|                 | <b><u>Smooth formwork to sides</u></b>  |    |       |  |
| 3/2/5           | Edges, risers, ends and reveals not exceeding 300mm high or wide  | m  | 241   |  |
|                 | <b><u>MOVEMENT JOINTS ETC</u></b>   |    |       |  |
|                 | <b><u>Expansion joints with softboard between vertical concrete and brick surfaces</u></b>  |    |       |  |
| 3/2/6           | 10mm Joints not exceeding 300mm high along edges of surface beds  | m  | 529   |  |
|                 | <b>Carried Forward</b>  |    |       |  |
|                 | Section No. 3<br>New School<br>Bill No. 2<br>CONCRETE, FORMWORK AND REINFORCEMENT   |    |       |  |
|                 |   |    | R     |  |



| Brought Forward   |  |    | R     |
|---|--|----|-------|
|   | <b><u>Saw cut joints</u></b>                                       |    |       |
| 3/2/7   | 50 x 3mm Saw cut joints in top of concrete                         | m  | 562   |
|   | <b><u>REINFORCEMENT (PROVISIONAL)</u></b>                          |    |       |
|   | <b><u>Mild steel reinforcement to foundations</u></b>              |    |       |
| 3/2/8   | 10mm Diameter bars   | t  | 48.23 |
| 3/2/9   | MS: 12mm Diameter bars   | t  | 72.41 |
| 3/2/10  | MS: 16mm Diameter bars   | t  | 32.33 |
|   | <b><u>Fabric reinforcement</u></b>                                 |    |       |
| 3/2/11  | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 4 152 |
| <b>Carried Forward to Summary of Section No. 3</b>                                |  |    | R     |
| Section No. 3<br>New School<br>Bill No. 2<br>CONCRETE, FORMWORK AND REINFORCEMENT |  |    |       |

| Item No |  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.116 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brick and face brickwork shall be deemed to include square recessed, hollow recessed, wheathered pointing, etc.</p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>FOUNDATIONS</u></b></p> <p><b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u></b></p> |          |       |        |
| 3/3/1   | One brick walls  | m2       | 1 507 |        |
|         | <b>Carried Forward</b>   |          | R     |        |
|         | <p>Section No. 3</p> <p>New School</p> <p>Bill No. 3</p> <p>MASONRY</p>  |          |       |        |

| Brought Forward   |  |    | R      |
|---|--|----|--------|
| <b><u>SUPERSTRUCTURE</u></b>  |  |    |        |
| <b><u>Brickwork of NFP bricks in class II mortar</u></b>  |  |    |        |
| 3/3/2   | NFP Class II mortar:Half brick walls in beamfilling  | m2 | 492    |
| 3/3/3   | Square Piers   | m3 | 44     |
| 3/3/4   | NFP Class II mortar:Half brick walls   | m2 | 547    |
| 3/3/5   | One brick walls  | m2 | 4 485  |
| <b><u>Joint forming material in movement joints</u></b>   |  |    |        |
| 3/3/6   | 12mm Fibre board built in vertically through brick walls   | m2 | 210    |
| <b><u>Brickwork reinforcement</u></b>   |  |    |        |
| 3/3/7   | 75mm Wide reinforcement built in horizontally  | m  | 1 621  |
| 3/3/8   | 150mm Wide reinforcement built in horizontally   | m  | 17 017 |
| <b><u>FACE BRICKWORK:</u></b>   |  |    |        |
| <b><u>Internal facings - Opal Satin (PC 4 900.00/1000 delivered on site) pointed with square horizontal and vertical joints</u></b> |  |    |        |
| 3/3/9   | Extra over ordinary brickwork for facing and pointing in stretcher bond.   | m2 | 1 032  |
| 3/3/10  | Face brick-on-end sill 110mm wide x 110mm high of cut face bricks set flat in cement mortar and pointing on all exposed surfaces | m  | 210    |
| <b><u>External facings - Opal Satin (PC 4 900.00/1000 delivered on site) pointed with square horizontal and vertical joints</u></b> |  |    |        |
| 3/3/11  | Extra over ordinary brickwork for facing and pointing in stretcher bond  | m2 | 4 420  |
| 3/3/12  | Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond   | m2 | 492    |
| 3/3/13  | Fair raking cutting  | m  | 406    |
| Carried Forward   |  |    | R      |
| Section No. 3<br>New School<br>Bill No. 3<br>MASONRY  |  |    |        |

| Brought Forward                                      |   |    | R   |  |
|--|---|----|-----|--|
| 3/3/14   | Face brick-on-edge sills 200mm wide of cut face bricks set sloping and slightly projecting on all exposed surfaces                        | m  | 406 |  |
| 3/3/15   | Face-brick-on edge header course lintel   | m  | 775 |  |
| <b><u>Safe Ventilator</u></b>                        |   |    |     |  |
| 3/3/16   | Standard double sided built in wall formed at safe  | No | 1   |  |
| 3/3/17   | Cranked Vent to Architect's specification   | No | 2   |  |
| <b><u>Air Block</u></b>                              |   |    |     |  |
| 3/3/18   | Terracotta air block 190 x 190mm  | No | 60  |  |
| <b><u>Galvanised hoop iron cramps, ties, etc</u></b> |   |    |     |  |
| 3/3/19   | 30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork   | No | 684 |  |
| 3/3/20   | Extra over brickwork for 110mm Wide horizontal splayed cill 170mm high using cut facings-on-end, pointed on splayed front face 175mm high | m  | 436 |  |
| <b>Carried Forward to Summary of Section No. 3</b>   |   |    | R   |  |
| Section No. 3  |   |    |     |  |
| New School   |   |    |     |  |
| Bill No. 3   |   |    |     |  |
| MASONRY  |   |    |     |  |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 4</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.120 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>DAMP PROOFING</u></b></p> <p><b><u>One layer 250 micron "Gunplas USB Green" polyethylene waterproofing:</u></b></p> <p>3/4/1 On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net). m2 4 636</p> <p><b><u>One layer 375 micron embossed "Gunplas Brikgrip" polyethylene damp proof course fixed with approved adhesive:</u></b></p> <p>3/4/2 On walls, stepped up in cavities, under cills, etc. m2 754</p> <p><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section No. 3<br/>New School<br/>Bill No. 4<br/>WATERPROOFING</p> |          |      |        |
|         |   |          | R    |        |

| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 5</u></b></p> <p><b><u>ROOF COVERINGS ETC</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.124 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p>NOTE : The Contractor is to submit a 5year guarantee certificate signed by the merchant, stating that the roof covering supplied complies with the required thickness specified and water-tightness. Unless otherwise stated, all installations shall be done by an approved roof contractor.</p> <p>-----</p> |          |      |        |
| <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3<br/>New School<br/>Bill No. 5<br/>ROOF COVERINGS, ETC</p>  |          | R    |        |

| Brought Forward   |  |    | R     |
|---|--|----|-------|
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |  |    |       |
| The Contractor is to give a guarantee that all roofs are water and weather-proof for a period of five years from the date of practical completion.                        |  |    |       |
| Prices for flashings, etc., are to include for all labour and riveted and soldered seams, joints and dressings as required. All flashings, etc., are measured nett.       |  |    |       |
| Unless otherwise mentioned, all pitched roof covering shall be deemed to be not exceeding 50 degrees pitch.   |  |    |       |
| <b><u>GALVANISED SHEETING AND ACCESSORIES</u></b>   |  |    |       |
| <b><u>Galvanised roofing sheets</u></b>   |  |    |       |
| NOTE : The Contractor is to submit a certificate signed by the merchant, stating that the chromadek roof covering supplied complies with the required thickness specified |  |    |       |
| -----   |  |    |       |
| 3/5/1   | 0,6mm Galvanised IBR roof sheeting with pitch not exceeding 25 degrees fixed to timber purlins (elsewhere)             | m2 | 6 150 |
| 3/5/2   | 0,6mm standard sheet iron ridge capping 460mm girth three times bent to detail and fixed to timber purlins (elsewhere) | m  | 401   |
| <b><u>SHEETING METAL, FLASHINGS, LININGS, COPING ETC.</u></b>   |  |    |       |
| <u>0,6mm Ridge cap with "colomet" finish on one side</u>  |  |    |       |
| 3/5/3   | Hip capping 550mm girth  | m  | 31    |
| 3/5/4   | Valley flashing  | m  | 30    |
| 3/5/5   | Hip end cap  | No | 6     |
| 3/5/6   | Ridge end cap  | No | 34    |
| 3/5/7   | Junction of ridge with two hip capping   | No | 4     |
| Carried Forward   |  |    | R     |
| Section No. 3<br>New School<br>Bill No. 5<br>ROOF COVERINGS, ETC  |  |    |       |

| Brought Forward  |   |    | R     |
|--|---|----|-------|
| <b><u>CLOSURES, FLASHINGS, ETC.</u></b>                          |   |    |       |
| 3/5/8  | In valley lining  | m  | 30    |
| <b><u>Fibre insulation</u></b>                                   |   |    |       |
| 3/5/9  | Insulation laid taut over purlins ( at approximately 1,20mm centres) and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 6 150 |
| Carried Forward to Summary of Section No. 3                      |   |    | R     |
| Section No. 3<br>New School<br>Bill No. 5<br>ROOF COVERINGS, ETC |   |    |       |



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b>NOTE:</b> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.126 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>ROOF CONSTRUCTION</u></b></p> <p><b><u>Sawn South African Pine</u></b></p> <p><b><u>TIMBER</u></b></p> <p>All softwood to be South African Pine</p> <p><b><u>DESCRIPTIONS</u></b></p> <p>The term "planted on" shall mean the nailing of one timber member to another.</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> |          |      |        |
|         | Carried Forward  |          | R    |        |
|         | <p>Section No. 3<br/>New School<br/>Bill No. 6<br/>CARPENTRY AND JOINERY</p>   |          |      |        |

|   |  |   |  |
|---|--|---|--|
| <p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PREFABRICATED ROOF TRUSSES</u></b></p> <p>NOTE:</p> <p>a. All the roof trusses to be at average 1200mm centres.</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 gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented 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 500mm beyond the length of the tie beam, with ends twice splay cut</p> <p>d. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SABS 0243 and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent</p> <p>e. The tenderer's attention is drawn to the fact that the detail drawings included at the back of these Bills of Quantities only represents the overall size and bearing points of the trusses and not the required design.</p> <p>e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing. -----</p> <p><b><u>SUNDRY ROOF TIMBERS</u></b></p> |  | R |  |
| <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3<br/>New School<br/>Bill No. 6<br/>CARPENTRY AND JOINERY</p>   |  | R |  |

| Brought Forward  |  |      | R   |
|--|--|------|-----|
| <b><u>Carpentry and Joinery</u></b>                                |  |      |     |
| 3/6/1  | Prefabricated Roof Trusses (Ref. Drawing No.MPC + COM-W)             | Item |     |
| 3/6/2  | Prefabricated Roof Trusses x 2 Classroom                             | Item |     |
| 3/6/3  | Prefabricated Roof Trusses (Ref Drawing No.ABL + 2 Classroom +HOD-W) | Item |     |
| 3/6/4  | Prefabricated Roof Trusses 3 Classrooms (Ref. Drawing No CL3-W)      | Item |     |
| 3/6/5  | Prefabricated Roof Trusses Grade - (Ref. Drawing No GR - 3W)         | Item |     |
| 3/6/6  | Prefabricated Roof Trusses Admin Block (Ref Drawing No Admin2-W)     | Item |     |
| 3/6/7  | Prefabricated Roof Trusses HOD + (Ref. Drawing No MPC + ABL-W)       | Item |     |
| 3/6/8  | Prefabricated Roof Trusses HOD + (Ref. Drawing No SCEI + ABL-W)      | Item |     |
| 3/6/9  | Prefabricated Roof Trusses (Ref Drawing No DNC - W)                  | Item |     |
| 3/6/10   | Prefabricated Roof Trusses MED (Ref Drawing No MED- W)               | Item |     |
| 3/6/11   | Prefabricated Roof Trusses (Ref Drawing No CLI + Store - W)          | Item |     |
| 3/6/12   | Prefabricated Roof Trusses (Ref Drawing No CL2 + Store - W)          | Item |     |
| 3/6/13   | Prefabricated Roof Trusses (Ref Drawing No CL2 + HOD - W)            | Item |     |
| 3/6/14   | Prefabricated Roof Trusses (Ref Drawing No CL3 + HOD - W)            | Item |     |
| <b><u>Sawn Softwood (Grade 4)</u></b>                              |  |      |     |
| 3/6/15   | 38 x 114 mm Wall plate.  | m    | 794 |
| Carried Forward  |  |      | R   |
| Section No. 3<br>New School<br>Bill No. 6<br>CARPENTRY AND JOINERY |  |      |     |

| Brought Forward  |  |    | R     |
|--|--|----|-------|
| <b><u>FACIAS, BARGE BOARDS, ETC:</u></b>                           |  |    |       |
| 3/6/16   | 12 x 225 mm Fibre cement fascia board drilled and brass screwed and including steel jointing strips between lengths. | m  | 1 628 |
| <b><u>EAVES AND VERGE LININGS, ETC:</u></b>                        |  |    |       |
| <b><u>Sawn South African Pine eaves closers</u></b>                |  |    |       |
| 3/6/17   | 50 x 76 mm Framing.  | m  | 7 472 |
| 3/6/18   | 114 x 38 mm Bracing.   | m  | 794   |
| <b><u>DOORS:</u></b>   |  |    |       |
| <b><u>COMMERCIAL VENEER FLUSH DOORS</u></b>                        |  |    |       |
| <b><u>Single Commercial Veneer flush Hollowcore - VNCOMLIO</u></b> |  |    |       |
| 3/6/19   | 40mm x 813 x 2 032mm panel single door.  | No | 26    |
| <b><u>COMMERCIAL VENEER FLUSH DOORS</u></b>                        |  |    |       |
| <b><u>Single Commercial Veneer flush Hollowcore - VNCOMLIO</u></b> |  |    |       |
| 3/6/20   | 40mm x 800 x 2 032mm panel single door.  | No | 42    |
| 3/6/21   | 40mm x 1220 x 2 032mm panel double door for Distribution board.  | No | 1     |
| 3/6/22   | 40mm x 1000 x 2 032mm panel single door.   | No | 4     |
| <b><u>Single Doors PD1</u></b>                                     |  |    |       |
| 3/6/23   | 40mm x 813 x 2 032mm panel single door.  | No | 35    |
| 3/6/24   | 40mm x 1000 x 2 032mm panel single door.   | No | 2     |
| <b><u>WOOD SKIRTING:</u></b>                                       |  |    |       |
| 3/6/25   | 75mm Standard meranti skirting with 19mm quarter rounder nailed.   | m  | 1 583 |
| <b>Carried Forward to Summary of Section No. 3</b>                 |  |    | R     |
| Section No. 3<br>New School<br>Bill No. 6<br>CARPENTRY AND JOINERY |  |    |       |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.129 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>CEILINGS</u></b></p> <p><b><u>INSULATION</u></b></p> <p><b><u>"Aerolite" Insulation</u></b></p> <p>3/7/1 40mm insulation closely fitted and laid on top of brandering m2 4 636</p> <p><b><u>NAILED UP AND SCREW UP CEILINGS</u></b></p> <p><b><u>"RHINOBOARD" CEILINGS</u></b></p> <p><b><u>6.4mm "Rhino" Fibre cement boards with standard H-type pressed steel jointing strips</u></b></p> <p>3/7/2 Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres. m2 4 636</p> <p><b><u>Sundries</u></b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3<br/>New School<br/>Bill No. 7<br/>CEILINGS, PARTITIONS &amp; ACCESS FLOORING</p> |          |      |        |
|         |   |          | R    |        |

| Brought Forward                             |   |    | R     |
|---|---|----|-------|
| <b><u>Coved Cornice</u></b>                 |   |    |       |
| 3/7/3                                       | 19 x 76mm Cornices nailed   | m  | 3 086 |
| 3/7/4                                       | Extra over gypsum plasterboard ceiling for hinged pressed trap door size 600 x 600mm including all necessary trimmers, ironmongery, etc | No | 57    |
| Carried Forward to Summary of Section No. 3 |   |    | R     |
| Section No. 3                               |   |    |       |
| New School                                  |   |    |       |
| Bill No. 7                                  |   |    |       |
| CEILINGS, PARTITIONS & ACCESS FLOORING      |   |    |       |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 3</u></b>   |          |      |        |
|         | <b><u>BILL NO. 8</u></b>  |          |      |        |
|         | <b><u>IRONMONGERY</u></b>   |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades  |          |      |        |
|         | NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 132 for Haylett Formula purposes  |          |      |        |
|         | NOTE : Where ironmongery is referred to by a trade name or catalogue number, it may be replaced by another product of equal quality with the prior approval of the Representative/Agent |          |      |        |
|         | NOTE : Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish ----- |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work                              |          |      |        |
|         | <b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC</u></b>   |          |      |        |
|         | <b><u>Locks, Bolts and latches</u></b>  |          |      |        |
| 3/8/1   | 75mm Four lever security lockset with satin chrome handles  | No       | 110  |        |
| 3/8/2   | Four lever security lockset to burglar doors  | No       | 55   |        |
| 3/8/3   | Door Handle 152 x 152mm code AL6066-05AS with self closer mechanism   | No       | 3    |        |
|         | <b><u>SUNDRIES</u></b>  |          |      |        |
| 3/8/4   | 24mm diameter black rubber door stop plugged and screwed to wall or floor code: B3446   | No       | 125  |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 3<br>New School<br>Bill No. 8<br>IRONMONGERY  |          |      |        |

| Brought Forward  |  |    | R    |           |
|--|--|----|------|-----------|
| 3/8/5  | Toilet roll holder - hold three rolls (Stainless steel) plugged and screwed to wall  | No | 22   |           |
| 3/8/6  | Chromium finish towel rail 19 x 600mm long complete with end brackets plugged and screwed to wall.   | No | 27   |           |
| <b><u>BARREL BOLTS, ETC:</u></b>                         |  |    |      |           |
| 3/8/7  | Barrel bolt with keep let into concrete  | No | 46   |           |
| <b><u>LETTERS, NAMEPLATES, ETC</u></b>                   |  |    |      |           |
| 3/8/8  | Female symbol code: B3345  | No | 6    |           |
| 3/8/9  | Male symbol code: B3344  | No | 6    |           |
| 3/8/10   | Physically impaired symbol code: B3346   | No | 6    |           |
| <b><u>"Fire Safety Signage"</u></b>                      |  |    |      |           |
| 3/8/11   | 190 x 190mm ABS plastic symbol safety sign Type: FB2 plugged and screwed to walls.   | No | 88   |           |
| 3/8/12   | Signage outside and inside the building as per Engineer's instruction  |    | Item | 35 000.00 |
| <b><u>CHALKBOARDS, PINNING BOARDS, ETC</u></b>           |  |    |      |           |
| <b><u>Green Chalkboard</u></b>                           |  |    |      |           |
| 3/8/13   | Chalkboard 3600 x 1140mm high: to comply with CKS-36-1980 or equivalent code of practice, complete with chalk roll as one unit, fitted according to manufacturer 's instruction. | No | 20   |           |
| 3/8/14   | Chalkboard 2400 x 1140mm high: to comply with CKS-36-1980 or equivalent code of practice, complete with chalk roll as one unit, fitted according to manufacturer 's instruction. | No | 11   |           |
| <b><u>Carpet pinning boards</u></b>                      |  |    |      |           |
| 3/8/15   | 1500 x 1200mm high pinning board including aluminium frame, pen tray and fixing components, with round plastic corners, fitted according to manufacturer 's instructions         | No | 6    |           |
| Carried Forward  |  |    | R    |           |
| Section No. 3<br>New School<br>Bill No. 8<br>IRONMONGERY |  |    |      |           |



| Brought Forward  |   |    | R  |
|--|---|----|----|
| 3/8/16   | 2400 x 1100mm high pinning board including aluminium frame, pen tray and fixing components, with round plastic corners, fitted according to manufacturer 's instructions  | No | 43 |
| <b><u>White boards</u></b>                               |   |    |    |
| 3/8/17   | 2400 x 1100mm high Marker board surface including intergrated pen tray and fixing components, fitted according to manufacturer 's instructions  | No | 7  |
| <b><u>GAS APPLIANCES</u></b>                             |   |    |    |
| 3/8/18   | R-G6 6No Open burner gas range with oven including complete installation and product certificate: Product code: 3005670.  | No | 2  |
| 3/8/19   | 13Kg Gas Bottles  | No | 6  |
| 3/8/20   | Gas encasement complete with concrete slab and 1.8m high multi spike vertical pales above ground level with exposed faces of all components painted with two coats universal enamel high gloss paint, formed of 50 x 50 x 3mm angle sections multi spike vertical pales at 170mm centres welded to 50 x 45 x 6mm angle section top and bottom rails, rails welded to 75 x 75 x 2mm hollow section posts 2,5m high at 3m centres, setting up and embedded in position into concrete base | No | 1  |
| <b>Carried Forward to Summary of Section No. 3</b>       |   |    | R  |
| Section No. 3<br>New School<br>Bill No. 8<br>IRONMONGERY |   |    |    |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>NOTE:</u></b> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.136 for JBCC CPAP purposes.</p> <p><b><u>EXPANSION BOLTS</u></b></p> <p>Expansion bolts shall be fixed in accordance with the manufacture's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p>Note: Tenderers are referred to architect's drawings numbered ..... annexed to these bills of quantities/accompanying these bills of quantities for tender purposes</p> <p><b><u>STEEL DOORS, WINDOWS, ETC</u></b></p> <p><b><u>STEEL DOOR FRAMES</u></b></p> <p><b><u>1,2 mm Thick double rebate door lining suitable for halfbrick wall for:</u></b></p> |          |      |        |
| 3/9/1   | Door size 813 x 2032 mm high   | No       | 58   |        |
| 3/9/2   | Door size 1180 x 2032 mm high for DB Board   | No       | 1    |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 3</p> <p>New School</p> <p>Bill No. 9</p> <p>METALWORK</p>  |          |      |        |

| Brought Forward   |   |    | R   |
|---|---|----|-----|
| <b><u>1,2 mm Thick double rebate door lining suitable for one brick wall for:</u></b>   |   |    |     |
| 3/9/3   | Door size 813 x 2032 mm high                      | No | 61  |
| 3/9/4   | Door size 1000 x 2032 mm high                     | No | 7   |
| <b><u>STEEL WINDOW FRAMES</u></b>   |   |    |     |
| NOTE : Windows shall be provided with chromium plated brass fittings  |   |    |     |
| NOTE : The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for extras on this account will be entertained |   |    |     |
| NOTE : Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame   |   |    |     |
| Bars in front of fixed sections to be bent 75mm away from the glass surface   |   |    |     |
| -----   |   |    |     |
| <b><u>Windows</u></b>   |   |    |     |
| 3/9/5   | Window type 4BH; size 0,889 x 0,457m high         | No | 44  |
| 3/9/6   | Window type 14BH; size 0,889 x 0,845m high        | No | 36  |
| 3/9/7   | Window type 6-4 Duro; size 0,889 x 1,248m high    | No | 293 |
| 3/9/8   | Window type 11F LT Duro; size 0,889 x 0,854m high | No | 2   |
| 3/9/9   | Window type D2F; size 1,022 x 1,245m high         | No | 34  |
| 3/9/10  | Window type C2F; size 1,022 x 1,949m high         | No | 3   |
| Carried Forward   |   |    | R   |
| Section No. 3<br>New School<br>Bill No. 9<br>METALWORK  |   |    |     |

| Brought Forward   |  |    | R  |  |
|---|--|----|----|--|
| <b><u>Steel Residential Type Windows</u></b>  |  |    |    |  |
| 3/9/11  | Window type E1; size 0,533 x 0,654m high   | No | 18 |  |
| 3/9/12  | Window type E2; size 1,022 x 0,654m high   | No | 6  |  |
| <b><u>Standard Steel Residential Type Windows</u></b>   |  |    |    |  |
| 3/9/13  | Steel Window size 0,600 x 0,925m high  | No | 3  |  |
| 3/9/14  | Steel Window size 1,200 x 0,925m high  | No | 3  |  |
| <b><u>ALUMINIUM WINDOW FRAMES</u></b>   |  |    |    |  |
| <b><u>Aluminium window frames with bronze powder coating, and safety glazing as per SANS standards.</u></b> |  |    |    |  |
|   | Horizontal Sliding Window size 900 x 1200mm  | No | 5  |  |
| <b><u>WELDED SCREENS, GATES, ETC.</u></b>   |  |    |    |  |
| 3/9/15  | Security door to suit 813 x 2 125mm single door and frame comprised of 50 x 50 x 3mm hollow square section frame and 10 x 10mm hollow square section diagonal at an angle of 45Deg and 100mm centres with a pair of suitable hinges welded to frame and with padlock all in and including outer frame of 50 x 50 x 3mm hollow square section welded frame bolted                           | No | 61 |  |
| 3/9/16  | Security door to suit 1 800 x 2 125mm single door and frame comprised of 50 x 50 x 3mm hollow square section frame and 10 x 10mm hollow square section diagonal at an angle of 45Deg and 100mm centres with a pair of suitable hinges welded to frame and with padlock all in and including outer frame of 50 x 50 x 3mm hollow square section welded frame bolted                         | No | 5  |  |
| 3/9/17  | Security burglars 3440 x 2 125mm comprised of 1511 x 2 125mm double door with frame comprised of 50 x 50 x 3mm hollow square section frame and 10 x 10mm hollow square section diagonal at an angle of 45Deg and 100mm centres with a pair of suitable hinges welded to frame and with padlock all in and including outer frame of 50 x 50 x 3mm hollow square section welded frame bolted | No | 1  |  |
| Carried Forward   |  |    | R  |  |
| Section No. 3<br>New School<br>Bill No. 9<br>METALWORK  |  |    |    |  |

| Brought Forward  |   |    | R |
|--|---|----|---|
| 3/9/18   | Security burglars 2 150 x 2 125mm comprised of 1511 x 2 125mm double door with frame comprised of 50 x 50 x 3mm hollow square section frame and 10 x 10mm hollow square section diagonal at an angle of 45Deg and 100mm centres with a pair of suitable hinges welded to frame and with padlock all in and including outer frame of 50 x 50 x 3mm hollow square section welded frame bolted | No | 1 |
| <b><u>STRONG ROOM DOOR</u></b>   |   |    |   |
| <b><u>Mutual Record room door. Opening 180 Deg. thickness 120mm, outer plate 6mm, weight 230Kg</u></b> |   |    |   |
| 3/9/19   | Strong/Record room ref: MRRD  | No | 1 |
| <b><u>Steel framed "Durowin" doors complete with glazing, lockset and door holder.</u></b>             |   |    |   |
| 3/9/20   | 1511 x 2 134mm panel double door.   | No | 4 |
| <b><u>STEEL ROLLER SHUTTERS ETC</u></b>  |   |    |   |
| <b><u>Standard roller door fixed to brickwork</u></b>  |   |    |   |
| 3/9/21   | Roller shutter for 4000 x 1200mm high opening   | No | 1 |
| <b>Carried Forward to Summary of Section No. 3</b>   |   |    | R |
| Section No. 3<br>New School<br>Bill No. 9<br>METALWORK   |   |    |   |

| Item No |  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>SECTION 3</u></b>  |          |       |        |
|         | <b><u>BILL No. 10</u></b>  |          |       |        |
|         | <b><u>PLASTERING</u></b>   |          |       |        |
|         | <b><u>PREAMBLES</u></b>  |          |       |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |       |        |
|         | NOTE: Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.142 for JBCC CPAP purposes.                         |          |       |        |
|         | <hr/>  |          |       |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |          |       |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |       |        |
|         | <b><u>SCREEDS</u></b>  |          |       |        |
|         | <b><u>Screeds on concrete</u></b>  |          |       |        |
| 3/10/1  | 30mm Thick on floors to receive floor tiles  | m2       | 4 636 |        |
|         | <b><u>Plaster to Walls</u></b>   |          |       |        |
| 3/10/2  | Plaster to internal walls  | m2       | 4 505 |        |
| 3/10/3  | Plaster to narrow widths   | m        | 819   |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |          |       |        |
|         | Section No. 3  |          |       |        |
|         | New School   |          |       |        |
|         | Bill No. 10  |          |       |        |
|         | PLASTERING   |          |       |        |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>NOTE: Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.144 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>CERAMIC TILES</u></b></p> <p><b><u>WALL TILING</u></b></p> <p><b><u>250 x 250mm polished porcelain wall tiles (PC Amount R105.00) fully vitrified, colour to be approved by the client (eg. oatmeal, beige, champagne, sand and camel, etc), allow for 100mm mosaic sheet as dado rail. Walls minimum 10mm smooth cement plaster on brickwalls: One coat primer and two coats of super acrylic polvin paint (colour to be approved by the client) or similar on paint ready surfaces.</u></b></p> |          |      |        |
| 3/11/1  | On walls  | m2       | 101  |        |
|         | <p><b><u>FLOOR TILING</u></b></p> <p><b><u>300 x 300 ceramic floor tiles (PC Amount R200), colour to be approved by client. Movement joints asper the Engineer's specification</u></b></p>  |          |      |        |
| 3/11/2  | Ceramic tiles to floors   | m2       | 123  |        |
|         | Carried Forward   |          | R    |        |
|         | <p>Section No. 3</p> <p>New School</p> <p>Bill No. 11</p> <p>TILING</p>   |          |      |        |

| Brought Forward                                      |  |    | R     |  |
|--|--|----|-------|--|
| 3/11/3   | Skirting 100mm high of cut tiles.<br><br><u>300 x 300 x 2.5mm semi flexible vinyl floor tiles, colour to be approved by client. Movement joints asper the Engineer's specification</u> | m  | 233   |  |
| 3/11/4   | Vinyl tiles to floors<br><br><u>EPOXY COATED FLOORS</u><br><br><u>Epoxy coated screed, colour to be approved by client. Movement joints asper the Engineer's specification</u>         | m2 | 3 122 |  |
| 3/11/5   | Epoxy coat to floors   | m2 | 68    |  |
| Carried Forward to Summary of Section No. 3          |  |    | R     |  |
| Section No. 3<br>New School<br>Bill No. 11<br>TILING |  |    |       |  |



| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 12</u></b></p> <p><b><u>PLUMBING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.148 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> |          |      |        |
| <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3<br/>New School<br/>Bill No. 12<br/>PLUMBING AND DRAINAGE</p>   |          | R    |        |

|        |  |    |     |   |  |
|--------|--|----|-----|---|--|
|        | <b>Brought Forward</b>   |    |     | R |  |
|        | <b><u>Erection and workmen</u></b>   |    |     |   |  |
|        | The erection and completion of this installation is to be carried out to the complete satisfaction of the Chief Director or his Representative/Agent by a firm specialising in this type of work. The Chief Director reserves the right to reject such firm of specialist and their specification at any stage before signing of the contract  |    |     |   |  |
|        | <b><u>Pricing</u></b>  |    |     |   |  |
|        | The Tenderer must price each item in this section individually and no changes made by the tenderer shall be recognised   |    |     |   |  |
|        | Where inclusive items are measured and priced, the contractor must on request, supply full details of the components and prices making up the inclusive items. If the contractor does not supply such details and does not supply such details and prices within fourteen days after having been requested to do so, the Quantity Surveyor will determine such at his own discretion |    |     |   |  |
|        | <b><u>Flush pans etc.</u></b>  |    |     |   |  |
|        | Flush pans shall have straight or side outlets and "p" or "s" traps as necessary   |    |     |   |  |
|        | Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable   |    |     |   |  |
|        | <b><u>GUTTERS, DOWNPIPES, ETC.</u></b>   |    |     |   |  |
|        | <b><u>0,6mm Galvanised sheet iron Class Z275</u></b>   |    |     |   |  |
| 3/12/1 | 100 x 75mm Rectangular section eaves gutter with 20mm wide overlapping joints sealed with and including bitumen impregnated foam plastic joint sealing strip and rivetted at suitable centres  | m  | 800 |   |  |
| 3/12/2 | Extra over for bends, stopped ends, etc.   | No | 72  |   |  |
| 3/12/3 | Extra over outlet with nozzle for and jointed to 75mm diameter galvanised sheet iron downpipe including galvanised wire ballon grating   | No | 72  |   |  |
| 3/12/4 | 75mm Diameter rainwater downpipe with brackets fixed to steelwork (elsewhere)  | m  | 400 |   |  |
|        | <b>Carried Forward</b>   |    |     | R |  |
|        | Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE  |    |     |   |  |

| Brought Forward   |   |    | R  |  |
|---|---|----|----|--|
| 3/12/5  | Extra over for shoe   | No | 72 |  |
| <b><u>SANITARY FITTINGS</u></b>                                     |   |    |    |  |
| <b><u>Sanitary fittings, including fixing in position:</u></b>      |   |    |    |  |
| 3/12/6  | 510 x 375mm White vitreous china wash hand basin complete with and including two chromium plated pillar taps, waste union, plug and chain and concealed brackets.   | No | 5  |  |
| 3/12/7  | 565 x 440mm white vitreous china oval drop-in vanity hand basin complete with and including one chromium plated pillar tap, one tap hole plug, waste, plug and chain onto concrete vanity top (elsewhere)   | No | 18 |  |
| 3/12/8  | 510 x 375mm White vitreous china paraplegic wash hand basin complete with and including two chromium plated elbow action taps, waste union, plug and chain and concealed brackets.  | No | 6  |  |
| 3/12/9  | 610 x 385mm White vitreous china curvedback wall urinal (code: 705326) with top flush entry complete with and including concealed wall hangers, 4.5litre cistern with back inlet and PC push button, chromium plated waste outlet and grating, and with a 15mm chromium plated push button stopcock flushing system with matching extended chromium plated flush pipe with spreaders. | No | 6  |  |
| 3/12/10   | 20mm No. FJ6.000 exposed model chromium plated urinal valve, with integral ballostop and wall plate including FJT5.4 chromium plated connecting pipe and spray rose   | No | 6  |  |
| 3/12/11   | WC suite for paraplegic toilet comprising white vitreous china pan with S-trap, 9 litre matching cistern complete with lid, fitments, purpose made C.P. side flush lever and heavy duty white plastic double flap seat with chromium plated accessories.  | No | 6  |  |
| 3/12/12   | Low level WC suite comprising white Sanitaryware with a duct cistern complete with lid, fitments, handle and heavy duty white plastic double flap seat with chromium plated accessories.  | No | 6  |  |
| Carried Forward   |   |    | R  |  |
| Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE |   |    |    |  |

| Brought Forward  |  |    | R   |  |
|--|--|----|-----|--|
| 3/12/13  | Low level WC suite comprising white vitreous china pan with S-trap, 9 litre matching duct cistern complete with lid, fitments, push button mechanism and heavy duty white plastic double flap seat with chromium plated accessories. | No | 9   |  |
| 3/12/14  | Complete set of aluminium paraplegic grab rails to be fitted on the wall   | No | 6   |  |
| 3/12/15  | Stainless steel inset sink, size 900 x 500mm fixed to double door cupboard   | No | 4   |  |
| 3/12/16  | Lab sink 234500 to be fitted with acid resistant waste fixed underneath slab using two adjustable underslung brackets  | No | 3   |  |
| 3/12/17  | Grade 304(19/0) 1mm thick stainless steel inset sink, size 900 x 500mm fixed to double door cupboard   | No | 2   |  |
| 3/12/18  | Grade 304(18/10) 1mm thick stainless steel inset prep sink size 600 x 500 x 258mm deep, with integral overflow   | No | 1   |  |
| <b><u>Traps, etc including joints to steel pipe and/or fittings unless otherwise described:</u></b>          |  |    |     |  |
| 3/12/19  | 32-40mm Chromium plated bottle trap.   | No | 43  |  |
| 3/12/20  | 40 x 40mm flexible rubber combination trap complete with clips   | No | 12  |  |
| 3/12/21  | Stainless steel floor mounted grease trap, including modifying unit by adding 150 mm legs to raise unit off the finish floor level   | No | 2   |  |
| 3/12/22  | Stainless steel floor drain with fixed trap and removable basket, cast into concrete   | No | 1   |  |
| 3/12/23  | 100mm 'Bain' cast iron floor drain cast into concrete  | No | 1   |  |
| <b><u>Taps, Valves, etc, including joints to steel pipes and/or fittings unless otherwise described:</u></b> |  |    |     |  |
| 3/12/24  | 15mm Copper service pipe 350mm girth.  | No | 115 |  |
| 3/12/25  | 22mm Brass stopcock.   | No | 49  |  |
| Carried Forward  |  |    | R   |  |
| Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE  |  |    |     |  |

|         | Brought Forward  |    |     | R |  |
|---------|--|----|-----|---|--|
| 3/12/26 | 15mm Chromium plated stopcock.   | No | 108 |   |  |
| 3/12/27 | 15mm chromium plated single taphole sink mixer, including waste plug, chain and regulating valves  | No | 10  |   |  |
| 3/12/28 | 15mm 139 chromium plated undertile stopcock  | No | 15  |   |  |
| 3/12/29 | 20mm 10' vacuum breaker  | No | 8   |   |  |
| 3/12/30 | 20mm 1' combined pressure control and expansion relief valve with system pressure of 400 kPa   | No | 4   |   |  |
| 3/12/31 | Thermostatic temperature controller, including 350mm long supply tube and cap nut  | No | 4   |   |  |
|         | <b><u>Electric Geyser, including installation complete</u></b>   |    |     |   |  |
| 3/12/32 | 50 litre high pressure water heater complete with heating elements, drain cock, air relief valve, including hangers, brackets, bolts, geyser tray where necessary, etc.  | No | 3   |   |  |
| 3/12/33 | 200 litre high pressure water heater complete with heating elements, drain cock, air relief valve, including hangers, brackets, bolts, geyser tray where necessary, etc. | No | 1   |   |  |
|         | <b><u>SANITARY PLUMBING:</u></b>   |    |     |   |  |
|         | <b><u>uPVC pipes and fittings:</u></b>   |    |     |   |  |
| 3/12/34 | 50mm Pipe fixed in walls, ceilings, roofs, floors, etc.  | m  | 165 |   |  |
| 3/12/35 | 50mm Pipe fixed in trenches including excavations, backfilling, etc.   | m  | 67  |   |  |
| 3/12/36 | 110mm Pipe fixed in trenches, including excavations, backfilling, etc.   | m  | 123 |   |  |
|         | <b><u>Extra over uPVC pipes for fittings:</u></b>  |    |     |   |  |
| 3/12/37 | 50mm Bend.   | No | 87  |   |  |
| 3/12/38 | 50mm Access bend.  | No | 27  |   |  |
| 3/12/39 | 50mm Junction.   | No | 37  |   |  |
|         | <b>Carried Forward</b>   |    |     | R |  |
|         | Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE  |    |     |   |  |

|         | Brought Forward  |    |     | R |  |
|---------|--|----|-----|---|--|
| 3/12/40 | 50mm Access junction.  | No | 6   |   |  |
| 3/12/41 | 50mm junction with inspection eye  | No | 6   |   |  |
| 3/12/42 | 50mm rodding eye   | No | 4   |   |  |
| 3/12/43 | 50 x 110mm reducing junction with inspection eye   | No | 14  |   |  |
| 3/12/44 | 110mm Reducer.   | No | 18  |   |  |
| 3/12/45 | 110mm Bend.  | No | 52  |   |  |
| 3/12/46 | 110mm rodding eye  | No | 14  |   |  |
| 3/12/47 | 110mm junction with inspection eye   | No | 41  |   |  |
| 3/12/48 | 110mm Pan connector.   | No | 25  |   |  |
| 3/12/49 | 110mm Access bend with anti-syphon horn.   | No | 11  |   |  |
| 3/12/50 | Two way PVC vent valve suitable for 50mm pipe.   | No | 21  |   |  |
| 3/12/51 | 110mm PVC gulley trap complete   | No | 9   |   |  |
|         | <b><u>WATER SUPPLY:</u></b>  |    |     |   |  |
|         | <b><u>Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections:</u></b> |    |     |   |  |
| 3/12/52 | 15mm Pipes fixed in walls, ceilings, roofs, floors, etc.   | m  | 149 |   |  |
| 3/12/53 | 22mm Pipes fixed in walls, ceilings, roofs, floors, etc.   | m  | 160 |   |  |
|         | <b><u>Extra over class O copper pipes for soldered capillary fittings:</u></b>                                 |    |     |   |  |
| 3/12/54 | 15mm Fittings.   | No | 146 |   |  |
| 3/12/55 | 22mm Fittings.   | No | 76  |   |  |
|         | <b><u>HDPE pressure pipe class 12</u></b>  |    |     |   |  |
| 3/12/56 | 25mm pipes laid in and including trenches not exceeding 1m deep  | m  | 228 |   |  |
|         | <b>Carried Forward</b>   |    |     | R |  |
|         | Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE  |    |     |   |  |

| Brought Forward   |  |    |     | R    |
|---|--|----|-----|------|
| <b><u>Extra over for HDPE pressure pipes for fittings</u></b>       |  |    |     |      |
| 3/12/57   | 25mm tee connector   | No | 30  |      |
| 3/12/58   | 25mm elbow connector   | No | 28  |      |
| 3/12/59   | 25mm galvanised adaptor  | No | 30  |      |
| 3/12/60   | 20mm complete galvanised stand pipe complete with brass tap  | No | 5   |      |
| <b><u>TESTING:</u></b>  |  |    |     |      |
| 3/12/61   | Provide all necessary apparatus water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect.             |    |     | Item |
| 3/12/62   | Testing water pipe system  |    |     | Item |
| <b><u>FIRE APPLIANCES, ETC.:</u></b>                                |  |    |     |      |
| 3/12/63   | Fire hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket.  | No | 29  |      |
| 3/12/64   | 4,5kg DCP dry powder portable fire extinguisher on and including wrought meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook. | No | 63  |      |
| <b><u>WATER SUPPLIES TO FIRE APPLIANCES:</u></b>                    |  |    |     |      |
| <b><u>Galvanised steel pipes:</u></b>                               |  |    |     |      |
| 3/12/65   | 25mm Pipes.  | m  | 207 |      |
| <b><u>Extra over galvanised steel pipes for steel fittings:</u></b> |  |    |     |      |
| 3/12/66   | 25mm Fittings.   | No | 108 |      |
| Carried Forward   |  |    |     | R    |
| Section No. 3<br>New School<br>Bill No. 12<br>PLUMBING AND DRAINAGE |  |    |     |      |

[illegible]



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 3</u></b>  |          |      |        |
|         | <b><u>BILL No. 13</u></b>  |          |      |        |
|         | <b><u>GLAZING</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades               |          |      |        |
|         | NOTE: Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.150 for JBCC CPAP purposes. |          |      |        |
|         | <hr/>  |          |      |        |
|         | <b><u>GLAZING TO STEEL WINDOWS</u></b>   |          |      |        |
|         | <b><u>Glass in steel fixed with putty</u></b>  |          |      |        |
| 3/13/1  | 4mm Clear float Safety glass in squares exceeding 0,1 and not exceeding 0,5m2 in area  | m2       | 420  |        |
| 3/13/2  | 4mm Obscured glass in squares exceeding 0,1 and not exceeding 0,5m2 in area  | m2       | 28   |        |
|         | <b><u>MIRRORS</u></b>  |          |      |        |
| 3/13/3  | 6 mm Float glass Quality polished mirror size 450 x 600 mm fixed to wall position with chromed dome headed screws.                 | No       | 12   |        |
|         | <u>2mm thick type 304 (18/8) polished stainless steel mirrors with rounded and polished edges</u>                                  |          |      |        |
| 3/13/4  | Mirror size 300 x 450mm  | No       | 4    |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |          | R    |        |
|         | Section No. 3  |          |      |        |
|         | New School   |          |      |        |
|         | Bill No. 13  |          |      |        |
|         | GLAZING  |          |      |        |

| Item No |   | Quantity | Rate  | Amount |
|---------|---|----------|-------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 14</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>NOTE: Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.152 for JBCC CPAP purposes.</p> <p>_____</p> <p>_____</p> <p>The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works</p> <p><b><u>PAINTWORK, ETC TO NEW WORK ON</u></b></p> <p><b><u>FLOATED PLASTER SURFACES WITH</u></b></p> <p><b><u>One coat alkali resistant plaster primer and two coats modified acrylic fine textured emulsion paint on</u></b></p> |          |       |        |
| 3/14/1  | Internal walls  | m2       | 4 559 |        |
|         | <p><b><u>One coat plascon wood primer and two coats plascon velvagro (color: tequila VLO 10) paint on</u></b></p>   |          |       |        |
| 3/14/2  | Wood primer UC and velvagro paint on door surfaces  | m2       | 80    |        |
|         | <p><b><u>Three coats Exterior Woodcare Preservative colour: Mahogany FPR 21</u></b></p>   |          |       |        |
| 3/14/3  | Paint on door surfaces  | m2       | 296   |        |
|         | <p><b><u>PAINT ON METAL:</u></b></p>  |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |
|         |   |          |       |        |

| Brought Forward   |   |    |       | R |
|---|---|----|-------|---|
|   | <b><u>Prepare, touch up factory primer, paint one coat metalcare primer and two universal enamel:</u></b>                           |    |       |   |
| 3/14/4  | Metalcare steel under coat primer and two universal enamel paint to door and window frames (color: Battleship Grey G13)             | m2 | 518   |   |
|   | <b><u>PAINT ON FIBRE-CEMENT:</u></b>  |    |       |   |
|   | <b><u>Prepare, stop and paint one coat alkali resistant primer and two full coats eggshell emulsion paint for exterior use:</u></b> |    |       |   |
| 3/14/5  | On ceilings and cornices.   | m2 | 4 636 |   |
| 3/14/6  | On fascias and barge boards.  | m2 | 259   |   |
| <b>Carried Forward to Summary of Section No. 3</b>      |   |    |       | R |
| Section No. 3<br>New School<br>Bill No. 14<br>PAINTWORK |   |    |       |   |

| Item No |  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>SECTION 3</u></b>  |          |       |        |
|         | <b><u>SECTION NO. 2</u></b>  |          |       |        |
|         | <b><u>BILL NO. 15</u></b>  |          |       |        |
|         | <b><u>APRONS AND ACCESS RAMPS</u></b>  |          |       |        |
|         | <b><u>(PROVISIONAL)</u></b>  |          |       |        |
|         | <b><u>PREAMBLES</u></b>  |          |       |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |       |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |       |        |
|         | <b><u>CONCRETE</u></b>   |          |       |        |
|         | <b><u>(HAYLETT FORMULA WORK GROUP NO. 110)</u></b>   |          |       |        |
|         | <b><u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u></b>   |          |       |        |
| 3/15/1  | Aprons   | m3       | 76    |        |
| 3/15/2  | Access ramps   | m3       | 69    |        |
|         | <b><u>Sundries</u></b>   |          |       |        |
| 3/15/3  | Non-slip wood float finish to top of aprons to falls   | m2       | 1 514 |        |
|         | <b><u>Expansion Joints</u></b>   |          |       |        |
| 3/15/4  | 10mm Bitumen impregnated softboard expansion joint between concrete aprons and brickwall 100mm high  | m        | 1 102 |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |          |       |        |
|         | Section No. 3  |          |       |        |
|         | New School   |          |       |        |
|         | Bill No. 15  |          |       |        |
|         | APRONS   |          |       |        |

|                          |  |  |            |  |        |    |
|--------------------------|--|--|------------|--|--------|----|
| Bill<br>No               | Section No. 3                              |  | Page<br>No |  | Amount |    |
|                          | New School                                 |  |            |  |        |    |
|                          | <b><u>SECTION SUMMARY - New School</u></b> |  |            |  |        |    |
|                          | 3/1  | EARTHWORKS                             |            |  |        | 30 |
|                          | 3/2  | CONCRETE, FORMWORK AND REINFORCEMENT   |            |  |        | 33 |
|                          | 3/3  | MASONRY                                |            |  |        | 36 |
|                          | 3/4  | WATERPROOFING                          |            |  |        | 37 |
|                          | 3/5  | ROOF COVERINGS, ETC                    |            |  |        | 40 |
|                          | 3/6  | CARPENTRY AND JOINERY                  |            |  |        | 44 |
|                          | 3/7  | CEILINGS, PARTITIONS & ACCESS FLOORING |            |  |        | 46 |
|                          | 3/8  | IRONMONGERY                            |            |  |        | 49 |
|                          | 3/9  | METALWORK                              |            |  |        | 53 |
|                          | 3/10                                       | PLASTERING                             |            |  |        | 54 |
|                          | 3/11                                       | TILING                                 |            |  |        | 56 |
|                          | 3/12                                       | PLUMBING AND DRAINAGE                  |            |  |        | 64 |
|                          | 3/13                                       | GLAZING                                |            |  |        | 65 |
|                          | 3/14                                       | PAINTWORK                              |            |  |        | 67 |
| 3/15                     | APRONS                                     | 68                                     |            |  |        |    |
| Carried to Final Summary |  |  | R          |  |        |    |
| Section No. 3            |  |  |            |  |        |    |
| New School               |  |  |            |  |        |    |

| Item No |  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>SECTION 4</u></b>  |          |       |        |
|         | <b><u>COMBI COURT AND SOCCER FIELD</u></b>   |          |       |        |
|         | <b><u>BILL NO.1</u></b>  |          |       |        |
|         | <b><u>EARTHWORKS</u></b>   |          |       |        |
|         | <b><u>PREAMBLES</u></b>  |          |       |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |       |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |       |        |
|         | <b><u>NOTE: Unless otherwise stated herein all items shall be deemed to fall into Work Group No.104 for JBCC CPAP purposes.</u></b>                        |          |       |        |
|         | <b><u>SITE CLEARANCE ETC</u></b>   |          |       |        |
|         | <b><u>Grabbing and removal of topsoil</u></b>  |          |       |        |
| 4/1/1   | Remove topsoil to average depth of 150mm reducing levels   | m3       | 3 272 |        |
| 4/1/2   | Carting away excavated material to spoil   | m3       | 18    |        |
|         | <b><u>Site clearance</u></b>   |          |       |        |
| 4/1/3   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc   | m2       | 665   |        |
| 4/1/4   | Clearing all bush trees to engineer's satisfaction   | m2       | 143   |        |
|         | <b>Carried Forward</b>   |          | R     |        |
|         | Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 1<br>EARTHWORKS  |          |       |        |

| Brought Forward |  |    |      | R |
|-----------------|--|----|------|---|
|                 | <u>Excavate in compacted pickable material as defined not exceeding 2m deep below reduced or filled up ground level, part return, fill in and ram and remainder deposit on site where directed.</u>          |    |      |   |
| 4/1/5           | Excavate for surface trenches.   | m3 | 25   |   |
|                 | <u>Sundries</u>  |    |      |   |
| 4/1/6           | Extra over all excavations in compacted pickable material for excavation in soft rock as described.  | m3 | 6    |   |
| 4/1/7           | Extra over all excavations in compacted pickable material for excavation in hard rock as described.  | m3 | 4    |   |
| 4/1/8           | Extra over all excavations for carting away excavated material as described (Contractor to allow for bulking).   | m3 | 12   |   |
| 4/1/9           | Allow for keeping excavations free of water and mud by pumping or bailing.   |    | Item |   |
|                 | <u>FILLING, ETC:</u>   |    |      |   |
| 4/1/10          | Excavated material under solid floors, saturated to optimum moisture content and compacted to 95% modified AASHTO into trenches, including haulage not exceeding 100 m from the perimeter of the excavation. | m3 | 135  |   |
| 4/1/11          | Imported G5 earth filling supplied by the Contractor and brought onto site, under solid floors, steps, pavings, etc. compacted to 93% modified AASHTO density  | m3 | 270  |   |
| 4/1/12          | 50 mm Thick layer of approved clean sand filling under surface beds.   | m2 | 646  |   |
|                 | <u>Compaction of surfaces</u>  |    |      |   |
| 4/1/13          | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density  | m2 | 672  |   |
|                 | <u>Test</u>  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |
|                 |  |    |      |   |

|        | Brought Forward   |    |       | R |  |
|--------|---|----|-------|---|--|
|        | <b><u>Prescribed density tests on filling</u></b>   |    |       |   |  |
| 4/1/14 | "Modified AASHTO Density" test  | No | 10    |   |  |
|        | <b><u>SOIL POISONING</u></b>  |    |       |   |  |
|        | <b><u>Soil insecticide</u></b>  |    |       |   |  |
| 4/1/15 | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming   | m2 | 720   |   |  |
|        | <b><u>SOCCER FIELD</u></b>  |    |       |   |  |
|        | <b><u>EARTHWORKS</u></b>  |    |       |   |  |
|        | <b><u>FOUNDATIONS (PROVISIONAL)</u></b>   |    |       |   |  |
|        | <b><u>SITE CLEARANCE ETC</u></b>  |    |       |   |  |
|        | <b><u>Grabbing and removal of topsoil</u></b>   |    |       |   |  |
|        | <b><u>Site clearance</u></b>  |    |       |   |  |
| 4/1/16 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  | m2 | 3 240 |   |  |
| 4/1/17 | Clearing all bush trees to engineer's satisfaction  | m2 | 84    |   |  |
|        | <b><u>FILLING, ETC:</u></b>   |    |       |   |  |
| 4/1/18 | Imported G4 earth filling supplied by the Contractor and brought onto site, under solid floors, steps, pavings, etc. compacted to 93% modified AASHTO density   | m3 | 1 620 |   |  |
|        | <b><u>Compaction of surfaces</u></b>  |    |       |   |  |
| 4/1/19 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 8 000 |   |  |
|        | <b>Carried Forward to Summary of Section No. 4</b>  |    |       | R |  |
|        | Section No. 4   |    |       |   |  |
|        | Combi Court And Soccer Field  |    |       |   |  |
|        | Bill No. 1  |    |       |   |  |
|        | EARTHWORKS  |    |       |   |  |



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 4</u></b></p> <p><b><u>COMBI COURT AND SOCCER FIELD</u></b></p> <p><b><u>BILL NO.2</u></b></p> <p><b><u>CONCRETE, FORM WORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>NOTE: Unless otherwise stated herein all items shall be deemed to fall into Work Group No.110 for JBCC CPAP purposes.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4<br/>Combi Court And Soccer Field<br/>Bill No. 2<br/>CONCRETE, FORMWORK AND REINFORCEMENT</p> |          |      |        |
|         |  |          | R    |        |

| Brought Forward |   |    | R   |  |
|-----------------|---|----|-----|--|
|                 | Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described  |    |     |  |
|                 | Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" |    |     |  |
|                 | <b><u>MASS CONCRETE</u></b>   |    |     |  |
|                 | <b><u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>  |    |     |  |
|                 | <b><u>20MPa/19mm concrete</u></b>   |    |     |  |
| 4/2/1           | Strip footings  | m3 | 8   |  |
| 4/2/2           | Surface beds  | m3 | 42  |  |
| 4/2/3           | Precast concrete channel concrete.  | m  | 109 |  |
| 4/2/4           | 50mm Channel bedded on dry mortar mix.  | m  | 109 |  |
|                 | <b><u>TEST CUBES</u></b>  |    |     |  |
| 4/2/5           | Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)   | No | 12  |  |
|                 | <b><u>CONCRETE SUNDRIES</u></b>   |    |     |  |
|                 | <b><u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u></b>   |    |     |  |
| 4/2/6           | Surface beds, slabs, etc  | m2 | 665 |  |
|                 | <b>Carried Forward to Summary of Section No. 4</b>  |    |     |  |
|                 | Section No. 4   |    |     |  |
|                 | Combi Court And Soccer Field  |    |     |  |
|                 | Bill No. 2  |    |     |  |
|                 | CONCRETE, FORMWORK AND REINFORCEMENT  |    |     |  |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 4</u></b>  |          |      |        |
|         | <b><u>COMBI COURT AND SOCCER FIELD</u></b>   |          |      |        |
|         | <b><u>BILL NO.3</u></b>  |          |      |        |
|         | <b><u>IRONMONGERY</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.132 for JBCC CPAP purposes.                  |          |      |        |
|         | <hr/>  |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |      |        |
|         | <b><u>Bolts and latches</u></b>  |          |      |        |
| 4/3/1   | 200mm Galvanised heavy duty barrel bolt welded onto gate style   | No       | 2    |        |
|         | <b><u>Locks</u></b>  |          |      |        |
| 4/3/2   | 63mm Brass five pin tumbler padlock with two keys  | No       | 2    |        |
|         | <u>Standard sports nets including all fixing ropes, attachments, etc.</u>  |          |      |        |
| 4/3/3   | Soccerpoles net including fixing in position complete and handing over to the Representative/Agent   | No       | 2    |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 3<br>IRONMONGERY   |          |      |        |

| Brought Forward  |  |    | R |
|--|--|----|---|
|  | <u>Standard sports nets including all fixing ropes, attachments, etc.</u>  |    |   |
| 4/3/4  | Netball net including fixing in position complete with netball ring and handing over to the Representative/Agent | No | 2 |
| 4/3/5  | Tennis court net including fixing in position complete and handing over to the Representative/Agent              | No | 1 |
| Carried Forward to Summary of Section No. 4                                |  |    | R |
| Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 3<br>IRONMONGERY |  |    |   |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 4</u></b></p> <p><b><u>COMBI COURT AND SOCCER FIELD</u></b></p> <p><b><u>BILL NO.4</u></b></p> <p><b><u>METAL WORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.136 for JBCC CPAP purposes.</p> <p><b><u>EXPANSION BOLTS</u></b></p> <p>Expansion bolts shall be fixed in accordance with the manufacture's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p><b><u>HOT-DIPPED GALVANISED MILD STEEL</u></b></p> <p>NOTE</p> <p>The following are to be hot-dipped galvanised after fabrication of complete units</p> |          |      |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p>   |          | R    |        |
|         | <p>Section No. 4<br/>Combi Court And Soccer Field<br/>Bill No. 4<br/>METALWORK</p>   |          |      |        |

|  | Brought Forward  |    |    | R |   |
|--|--|----|----|---|---|
|  | <u>Framed and welded hot-dipped double spelter galvanised mild steel poles, rings, etc. for sports equipment</u>   |    |    |   |   |
| 4/4/1  | Removable netball pole formed of 89mm diameter x 4mm thick hollow section 3900mm long with mushroom cap welded onto top, the pole with and including support for netball net (elsewhere) formed of 16mm diameter rod ring to 380mm internal diameter with 16mm square section L-shaped arm 250mm girth welded onto pole and onto ring including setting up unit in position complete in sleeve and later removing and handing over to the Representative/Agent   | No | 2  |   |   |
| 4/4/2  | Removable tennis pole formed of 89mm diameter x 4mm thick hollow section 1900mm long with top end welded closed with flat section, the pole once holed for and including net tension arm with eye formed of 16mm diameter threaded rod 450mm long complete with crank handle formed of 10mm diameter rod 350mm girth with threaded collar formed of 50 x 50 x 30mm flat section welded on and bolting onto tension arm; net straining eye formed of 8mm diameter rod welded onto pole including setting up unit in position complete in sleeve and later removing and handing over to the Representative/Agent | No | 2  |   |   |
|  | <u>Framed and welded hot-dipped double spelter galvanised mild steel poles, rings, etc. for sports equipment</u>   |    |    |   |   |
| 4/4/3  | Permanent soccer poles formed of 89mm diameter x 4mm thick hollow section fixing in position complete and handing over to the Representative/Agent   | No | 2  |   |   |
| 4/4/4  | All necessary marks on the soccer field  | m2 | 50 |   |   |
| <b>Carried Forward to Summary of Section No. 4</b>                       |  |    |    |   | R |
| Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 4<br>METALWORK |  |    |    |   |   |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 4</u></b>   |          |      |        |
|         | <b><u>COMBI COURT AND SOCCER FIELD</u></b>  |          |      |        |
|         | <b><u>BILL NO.5</u></b>   |          |      |        |
|         | <b><u>PAINTWORK</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                    |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.152 for JBCC CPAP purposes.               |          |      |        |
|         | <hr/>   |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works |          |      |        |
|         | <b><u>PAINT ON WOOD:</u></b>  |          |      |        |
|         | <b><u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u></b>                      |          |      |        |
| 4/5/1   | On general surfaces   | m2       | 45   |        |
|         | <b><u>Prepare and apply one coat universal undercoat and two full coats high gloss enamel paint in brilliant colour</u></b>                             |          |      |        |
| 4/5/2   | Backboard marking lines 50mm wide   | m        | 6    |        |
|         | <b><u>SURFACING OF BITUMINOUS PREMIX CARPET</u></b>   |          |      |        |
|         | <b><u>Bituminous premix combi court surfacing</u></b>   |          |      |        |
| 4/5/3   | Prime coat  | m2       | 665  |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 5<br>PAINTWORK  |          |      |        |

| Brought Forward  |  |      | R   |
|--|--|------|-----|
| 4/5/4  | 25mm Thick continuously graded premixed bituminous surfacing | m2   | 665 |
| 4/5/5  | Final course bitumal slurry seal                             | m2   | 665 |
| 4/5/6  | Tennis court marking lines 56mm wide                         | m    | 200 |
| 4/5/7  | Netball court marking lines 56mm wide                        | m    | 171 |
| 4/5/8  | All necessary marks on the soccer field                      | Item |     |
| Carried Forward to Summary of Section No. 4                              |  |      | R   |
| Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 5<br>PAINTWORK |  |      |     |



| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 4</u></b>   |          |      |        |
|         | <b><u>COMBI COURT AND SOCCER FIELD</u></b>  |          |      |        |
|         | <b><u>BILL NO.6</u></b>   |          |      |        |
|         | <b><u>FENCING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades  |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.140 for JBCC CPAP purposes.   |          |      |        |
|         | <hr/>   |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work  |          |      |        |
| 4/6/1   | Fencing 3000mm high formed of 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails and posts at 3870mm centres (rails and posts elsewhere) with and including 2mm galvanised binding wire | m        | 109  |        |
| 4/6/2   | 38,1mm Diameter x 2mm thick galvanised mild steel top or bottom rails   | m        | 109  |        |
| 4/6/3   | Extra for scribed and welded T-intersection with post   | No       | 2    |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 4<br>Combi Court And Soccer Field<br>Bill No. 6<br>FENCING  |          |      |        |

|  | Brought Forward  |    |    | R |   |
|--|--|----|----|---|---|
| 4/6/4  | <p>48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 3000mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end and four times holed for and bolted to top of wall with and including M10 x 95mm expansion bolts</p> <p><b><u>Galvanised mild steel gates</u></b></p>  | No | 40 |   |   |
| 4/6/5  | <p>Single pedestrian gate size 900 x 2100mm high formed of 50mm diameter x 2,8mm thick pipe framing all round complete with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections; the gate with two strands of 4mm thick galvanised mild steel straining wire mechanically strained between and securely fixed to gate styles and covered with and including 50mm mesh chain link netting of 3,15mm diameter galvanised mild steel wire securely fixed to straining wires and framing with and including 2mm galvanised binding wire, the one style fitted with and including two standard type pin and collar hinges bolted onto gate post (elsewhere) including drilling holes through gate post and other style prepared and drilled for barrel bolt (elsewhere) and hand-hole opening formed of 10mm diameter bar 320mm girth bent to semi-circular shape and welded on</p> | No | 1  |   |   |
| <b>Carried Forward to Summary of Section No. 4</b>                               |  |    |    |   | R |
| <p>Section No. 4<br/>Combi Court And Soccer Field<br/>Bill No. 6<br/>FENCING</p> |  |    |    |   |   |

|            |  |                                      |            |  |        |    |
|------------|--|--------------------------------------|------------|--|--------|----|
| Bill<br>No | Section No. 4  |                                      | Page<br>No |  | Amount |    |
|            | Combi Court And Soccer Field                                 |                                      |            |  |        |    |
|            | <b><u>SECTION SUMMARY - Combi Court And Soccer Field</u></b> |                                      |            |  |        |    |
|            | 4/1  | EARTHWORKS                           |            |  |        | 72 |
|            | 4/2  | CONCRETE, FORMWORK AND REINFORCEMENT |            |  |        | 74 |
|            | 4/3  | IRONMONGERY                          |            |  |        | 76 |
|            | 4/4  | METALWORK                            |            |  |        | 78 |
|            | 4/5  | PAINTWORK                            |            |  |        | 80 |
|            | 4/6  | FENCING                              |            |  |        | 82 |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |
|            |  |                                      |            |  |        |    |

| Item No  | Quantity  | Rate | Amount |
|--|---|------|--------|
| <b><u>SECTION 5</u></b>  |   |      |        |
| <b><u>BILL NO. 1</u></b>   |   |      |        |
| <b><u>SOIL AND WASTE WATER DRAINAGE</u></b>  |   |      |        |
| <b><u>PREAMBLES</u></b>  |   |      |        |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades   |   |      |        |
| <p><b>NOTE:</b> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.148 for JBCC CPAP purposes.</p> <hr/> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work</p> <p>(PROVISIONAL)</p> <p><b><u>DRAINAGE(Haylett Formula Work Group No. 148)</u></b></p> <p><b><u>uPVC pipes and fittings</u></b></p> |   |      |        |
| 5/1/1  | 110mm Pipes laid in and including trenches not exceeding 1m deep                  | m    | 132    |
| 5/1/2  | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m    | 64     |
| <b><u>Extra over 110mm uPVC pipes for</u></b>  |   |      |        |
| 5/1/3  | Bend  | No   | 48     |
| 5/1/4  | Junction  | No   | 21     |
| <b><u>Sundries</u></b>   |   |      |        |
| <b>Carried Forward</b>   |   |      | R      |
| Section No. 5<br>External Work<br>Bill No. 1<br>SOIL & WASTE WATER DRAINAGE  |   |      |        |

| Brought Forward   |  |    |     | R |
|---|--|----|-----|---|
| <b><u>Blocks, etc.</u></b>  |  |    |     |   |
| 5/1/5   | Precast concrete inspection eye block  | No | 7   |   |
| 5/1/6   | 110mm uPVC cleaning eye with screw-on lid  | No | 14  |   |
| <b><u>SEWER RETICULATION</u></b>  |  |    |     |   |
| <b><u>uPVC drain pipes, including couplings in the running lengths</u></b>  |  |    |     |   |
| 5/1/7   | 160mm Diameter pipes laid in earth or earth filling exceeding 1 and not exceeding 2 m deep | m  | 468 |   |
| <b><u>Extra over PVC pipes for fittings</u></b>                             |  |    |     |   |
| 5/1/8   | 160mm Reducer  | No | 12  |   |
| 5/1/9   | 160mm Bend   | No | 10  |   |
| 5/1/10  | 160mm Junction   | No | 8   |   |
| 5/1/11  | 160mm Reducing junction  | No | 5   |   |
| <b><u>Sundries</u></b>  |  |    |     |   |
| <b><u>Blocks, etc.</u></b>  |  |    |     |   |
| 5/1/12  | Precast concrete inspection eye block  | No | 5   |   |
| 5/1/13  | 160mm uPVC cleaning eye with screw-on lid  | No | 10  |   |
| <b><u>MANHOLES ETC</u></b>  |  |    |     |   |
| Carried Forward   |  |    |     | R |
| Section No. 5<br>External Work<br>Bill No. 1<br>SOIL & WASTE WATER DRAINAGE |  |    |     |   |

|        | Brought Forward   |    |      | R |  |
|--------|---|----|------|---|--|
|        | <p><b><u>Excavate for and build circular manhole with 1050 mm diameter precast concrete splay rebated rings not less than 63mm thick in suitable widths to suit invert bedded and jointed with suitable watertight joints, on and including 150mm thick reinforced concrete 20 MPa (19mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with cover and frame (elsewhere) cast into and including 125mm reinforced concrete 20 MPa (19mm stone) cover slab, steel trowelled smooth on all exposed surfaces, the bottom benched up in fine concrete 15 MPa (8mm stone) and finished smooth in 1:1 cement plaster around channels (elsewhere).</u></b></p> |    |      |   |  |
| 5/1/14 | Manhole exceeding 1 and not exceeding 2 m deep to invert  | No | 22   |   |  |
|        | <b><u>Manhole covers and frames, etc.</u></b>   |    |      |   |  |
| 5/1/15 | 550mm Diameter Type 4 manhole cover and frame, having a mass of 71 kg bedded in 1:3 cement mortar   | No | 22   |   |  |
|        | <b><u>TESTING:</u></b>  |    |      |   |  |
| 5/1/16 | Provide all necessary apparatus water, etc. for and test the whole of the Sewer Reticulation installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect.  |    |      |   |  |
|        |   |    | Item |   |  |
|        | <b><u>MUNICIPAL SEWER CONNECTION</u></b>  |    |      |   |  |
|        | <b><u>Allowance for municipal sewer connection</u></b>  |    |      |   |  |
| 5/1/17 | Sewer connection from municipal water supply  |    |      |   |  |
|        |   |    | Item |   |  |
|        | <b><u>WATER RETICULATION</u></b>  |    |      |   |  |
|        | <b><u>WATER SUPPLY:</u></b>   |    |      |   |  |
|        | <b><u>uPVC drain pipes, including couplings in the running lengths</u></b>  |    |      |   |  |
| 5/1/18 | 75mm Diameter pipes laid in earth or earth filling exceeding 1 and not exceeding 2 m deep   | m  | 588  |   |  |
|        |   |    |      |   |  |
|        | Carried Forward   |    |      | R |  |
|        | Section No. 5<br>External Work<br>Bill No. 1<br>SOIL & WASTE WATER DRAINAGE   |    |      |   |  |

|        | Brought Forward  |    |    | R |  |
|--------|--|----|----|---|--|
|        | <b><u>Extra over PVC pipes for fittings</u></b>  |    |    |   |  |
| 5/1/19 | 75mm Reducer   | No | 14 |   |  |
| 5/1/20 | 75mm Bend  | No | 18 |   |  |
| 5/1/21 | 75mm Junction  | No | 12 |   |  |
| 5/1/22 | 75mm Reducing junction   | No | 10 |   |  |
|        | <b><u>Sundries</u></b>   |    |    |   |  |
|        | <b><u>VALVE AND CHAMBERS ETC</u></b>   |    |    |   |  |
|        | <b><u>Excavate for and build circular chamber with 1050 mm diameter precast concrete splay rebated rings not less than 63mm thick in suitable widths to suit invert bedded and jointed with suitable watertight joints, on and including 150mm thick reinforced concrete 20 MPa (19mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with cover and frame (elsewhere) cast into and including 125mm reinforced concrete 20 MPa (19mm stone) cover slab, steel trowelled smooth on all exposed surfaces, the bottom benched up in fine concrete 15 MPa (8mm stone) and finished smooth in 1:1 cement plaster around channels (elsewhere).</u></b> |    |    |   |  |
| 5/1/23 | Valve chamber exceeding 1 and not exceeding 2 m deep to invert   | No | 4  |   |  |
|        | <b><u>Chamber covers and frames, etc.</u></b>  |    |    |   |  |
| 5/1/24 | 550mm Diameter Type 4 chamber cover and frame, having a mass of 71 kg bedded in 1:3 cement mortar  | No | 4  |   |  |
|        | <b><u>Valves</u></b>   |    |    |   |  |
|        | <b><u>Extra over for supplying, fixing and bedding of valves, supply, install on concrete support, joint, including cut pipes</u></b>  |    |    |   |  |
| 5/1/25 | 90mm diameter Socketed valve   | No | 4  |   |  |
|        | <b><u>Fire Hydrants</u></b>  |    |    |   |  |
| 5/1/26 | 80mm diameter hydrant complete with all necessary fittings   | No | 4  |   |  |
|        | <b>Carried Forward</b>   |    |    | R |  |
|        | Section No. 5<br>External Work<br>Bill No. 1<br>SOIL & WASTE WATER DRAINAGE  |    |    |   |  |

| Brought Forward   |  |    | R    |  |
|---|--|----|------|--|
| <b><u>MUNICIPAL WATER CONNECTION</u></b>                                |  |    |      |  |
| <b><u>Allowance for municipal water connection</u></b>                  |  |    |      |  |
| 5/1/27  | Water connection from municipal water supply   |    | Item |  |
| <b><u>HDPE pressure pipe class 12</u></b>                               |  |    |      |  |
| 5/1/28  | 25mm pipes laid in and including trenches not exceeding 1m deep                        | m  | 30   |  |
| 5/1/29  | 50mm pipes laid in and including trenches not exceeding 1m deep                        | m  | 20   |  |
| <b><u>Extra over for HDPE pressure pipes for "plasson" fittings</u></b> |  |    |      |  |
| 5/1/30  | 25mm tee connector   | No | 20   |  |
| 5/1/31  | 25mm elbow connector   | No | 18   |  |
| 5/1/32  | 50mm tee connector   | No | 8    |  |
| 5/1/33  | 50mm elbow connector   | No | 10   |  |
| 5/1/34  | 25mm galvanised adaptor  | No | 15   |  |
| 5/1/35  | 20mm complete galvanised stand pipe complete with brass tap                            | No | 2    |  |
| 5/1/36  | Drinking fountains complete with all necessary fittings as per engineers specification | No | 4    |  |
| <b>Carried Forward to Summary of Section No. 5</b>                      |  |    | R    |  |
| Section No. 5   |  |    |      |  |
| External Work   |  |    |      |  |
| Bill No. 1  |  |    |      |  |
| SOIL & WASTE WATER DRAINAGE   |  |    |      |  |



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 5</u></b>  |          |      |        |
|         | <b><u>BILL NO.2</u></b>  |          |      |        |
|         | <b><u>SECURITY FENCING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades   |          |      |        |
|         | <b>NOTE:</b> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.140 for JBCC CPAP purposes.  |          |      |        |
|         | _____  |          |      |        |
|         | _____  |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work   |          |      |        |
|         | <b><u>DIAMOND MESH SECURITY FENCE</u></b>  |          |      |        |
|         | <b><u>The following in bases:</u></b>  |          |      |        |
| 5/2/1   | Base for intermediate post, size 300 x 300 x 900mm, including all excavations, 15MPa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork. etc | No       | 18   |        |
| 5/2/2   | Base for intermediate post, size 450 x 450 x 450mm, including all excavations, 15MPa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork. etc | No       | 17   |        |
| 5/2/3   | Base for stay, size 450 x 450 x 600mm, including all excavations, 15MPa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork. etc              | No       | 14   |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING   |          |      |        |

| Brought Forward  |  |    | R   |
|--|--|----|-----|
| 5/2/4  | Base for end, corner or gate post, size 450 x 450 x 900mm, including all excavations, 15MPa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork. etc  | No | 20  |
| <b><u>Security fencing including site clearance and preparation of ground:</u></b> |  |    |     |
| 5/2/5  | Security fencing 1,8m high formed of 50 x 50 x 2,5mm galvanised welded mesh secured with 2,5mm galvanised binding wire to and including 4 strands of straining wires each strand formed of twisted double strand 1,6mm thick galvanised wires incorporating 3 barbs in every twist at 150mm centres, mechanically strained between straining and/or gate and corner posts at maximum 30mm centres with one end passed through holes and securely tied to and including eyebolts bolted onto posts, each strand tied at maximum 3m centres to intermediate posts (elsewhere) with and including 2,5mm galvanised binding wire   | m  | 44  |
| 5/2/6  | 100mm Diameter x 3mm thick galvanised intermediate post 2,6mm long with mushroom cap welded onto top and with 300 x 300 x 6mm mild steel base plate welded onto bottom end including setting up and embedded in position into concrete base (elsewhere)  | No | 8   |
| 5/2/7  | straining or corner post with two stays  | No | 8   |
| <b><u>Security fencing including site clearance and preparation of ground:</u></b> |  |    |     |
| 5/2/8  | Security fencing 1,8m high formed of 50 x 50 x 2,5mm galvanised welded mesh secured with 2,5mm galvanised binding wire to and including 4 strands of straining wires each strand formed of twisted double strand 1,6mm thick galvanised wires incorporating 3 barbs in every twist at 150mm centres, mechanically strained between straining and/or gate and corner posts at maximum 30mm centres with one end passed through holes and securely tied to and including eyebolts bolted onto posts, each strand tied at maximum 3m centres to intermediate posts (elsewhere) with and including 2,5mm galvanised binding wire, the fence complete with and including two rows of flat wrap razor security wire in 700mm diameter vertical loops fixed at each intersection with barbed straining wires with and including 2,5mm galvanised binding wire | m  | 590 |
| Carried Forward  |  |    | R   |
| Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING                   |  |    |     |

| Brought Forward  |   |    | R  |
|--|---|----|----|
| 5/2/9  | 50mm Diameter x 2,5mm thick galvanised intermediate post 2,6mm long with mushroom cap welded onto top and with 200 x 200 x 6mm mild steel base plate welded onto bottom end including setting up and embedded in position into concrete base (elsewhere)  | No | 7  |
| 5/2/10   | 100mm Diameter x 3mm thick galvanised intermediate post 2,6mm long with mushroom cap welded onto top and with 300 x 300 x 6mm mild steel base plate welded onto bottom end including setting up and embedded in position into concrete base (elsewhere)   | No | 14 |
| 5/2/11   | 100mm Diameter x 3mm thick galvanised end or gate post 2,6mm long with mushroom cap welded onto top the post 4 times holed for straining wires or eyebolts and with 300 x 300 x 6mm mild steel base plate welded onto bottom end, the post complete with and including one 50mm diameter x 2,6mm thick stay 2,4m long with top end flattened for length of 180mm, holed for and including M12 galvanised mild steel bolts with nuts and washers including drilling holes through posts and with 200 x 200 x 6mm mild steel base plate welded onto bottom end stay, including setting up post and stay and embedding in position in concrete bases (elsewhere) | No | 14 |
| 5/2/12   | Ditto, but straining or corner post with two stays  | No | 10 |
| 5/2/13   | Single pedestrian gate size 1,35 x 1,8m high formed of 50mm diameter x 2,8mm thick galvanised mild steel pipe framing all round complete with one 50mm diameter x 2,8mm thick galvanised mild steel pipe diagonal brace all neatly mitred and closedoff with diamond mesh and razor wire against the bottom face of the gate, including heavy duty hasp and staple complete   | No | 1  |
| 5/2/14   | Double gate 5500 x 2000mm high vertically, each leave closedoff with diamond mesh and razor wire against the bottom face of the gate, including heavy duty hasp and staple complete   | No | 2  |
| <b><u>PALISADE FENCE</u></b>                                     |   |    |    |
| <b><u>EARTHWORKS</u></b>   |   |    |    |
| <b><u>FOUNDATIONS (PROVISIONAL)</u></b>                          |   |    |    |
| <b><u>SITE CLEARANCE ETC</u></b>                                 |   |    |    |
| Carried Forward  |   |    | R  |
| Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING |   |    |    |

| Brought Forward  |   |    |      | R |  |
|--|---|----|------|---|--|
| <b><u>Site clearance</u></b>   |   |    |      |   |  |
| 5/2/15   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  | m2 | 150  |   |  |
| 5/2/16   | Clearing all bush trees to engineer's satisfaction  | m2 | 234  |   |  |
| <b><u>Excavate in compacted pickable material as defined not exceeding 2m deep below reduced or filled up ground level, part return, fill in and ram and remainder deposit on site where directed.</u></b> |   |    |      |   |  |
| 5/2/17   | Excavate for surface trenches.  | m3 | 168  |   |  |
| <b><u>Sundries</u></b>   |   |    |      |   |  |
| 5/2/18   | Extra over all excavations in compacted pickable material for excavation in soft rock as described.   | m3 | 8    |   |  |
| 5/2/19   | Extra over all excavations in compacted pickable material for excavation in hard rock as described.   | m3 | 17   |   |  |
| 5/2/20   | Extra over all excavations for carting away excavated material as described (Contractor to allow for bulking).  | m3 | 127  |   |  |
| 5/2/21   | Allow for the risk of collapse to sides of excavation from ground level not exceeding 1,5 m deep.   | m2 | 480  |   |  |
| 5/2/22   | Allow for keeping excavations free of water and mud by pumping or bailing.  |    | Item |   |  |
| <b><u>FILLING, ETC:</u></b>  |   |    |      |   |  |
| 5/2/23   | Excavated material in backfill, saturated to optimum moisture content and compacted to 95% modified AASHTO into trenches, including haulage not exceeding 100 m from the perimeter of the excavation. | m3 | 85   |   |  |
| 5/2/24   | 50 mm Thick layer of approved clean sand filling under surface beds.  | m2 | 210  |   |  |
| <b><u>Coarse river sand filling supplied by the contractor</u></b>   |   |    |      |   |  |
| 5/2/25   | Under floors etc  | m3 | 6    |   |  |
| Carried Forward  |   |    |      | R |  |
| Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING   |   |    |      |   |  |

| Brought Forward  |   |    | R    |
|--|---|----|------|
| <b><u>Compaction of surfaces</u></b>   |   |    |      |
| 5/2/26   | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 90   |
| <b><u>Test</u></b>   |   |    |      |
| <b><u>Prescribed density tests on filling</u></b>  |   |    |      |
| 5/2/27   | "Modified AASHTO Density" test  | No | 4    |
| <b><u>SOIL POISONING</u></b>   |   |    |      |
| <b><u>Soil insecticide</u></b>   |   |    |      |
| 5/2/28   | To bottoms and sides of trenches etc  | m2 | 690  |
| <b><u>REINFORCED CONCRETE</u></b>  |   |    |      |
| <b><u>20MPa/19mm concrete</u></b>  |   |    |      |
| 5/2/29   | Strip footings  | m3 | 42   |
| <b><u>TEST CUBES</u></b>   |   |    |      |
| 5/2/30   | Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)   | No | 8    |
| <b><u>MOVEMENT JOINTS ETC</u></b>  |   |    |      |
| <b><u>Expansion joints with softboard between vertical concrete and brick surfaces</u></b> |   |    |      |
| 5/2/31   | 10mm Joints not exceeding 300mm high along edges of surface beds  | m  | 20   |
| <b><u>REINFORCEMENT (PROVISIONAL)</u></b>  |   |    |      |
| <b><u>Mild steel reinforcement to foundations</u></b>                                      |   |    |      |
| 5/2/32   | 10mm Diameter bars  | t  | 1.20 |
| 5/2/33   | MS: 12mm Diameter bars  | t  | 3.80 |
| Carried Forward  |   |    | R    |
| Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING                           |   |    |      |

| Brought Forward  |   |    | R     |  |
|--|---|----|-------|--|
| <b><u>MASONRY</u></b>  |   |    |       |  |
| <b><u>BRICKWORK</u></b>  |   |    |       |  |
| <b><u>FOUNDATIONS</u></b>  |   |    |       |  |
| <b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u></b>                                      |   |    |       |  |
| 5/2/34   | One brick walls   | m2 | 225   |  |
| <b><u>SUPERSTRUCTURE</u></b>   |   |    |       |  |
| <b><u>Brickwork of NFP bricks in class II mortar</u></b>   |   |    |       |  |
| 5/2/35   | One brick walls   | m2 | 734   |  |
| <b><u>Joint forming material in movement joints</u></b>  |   |    |       |  |
| 5/2/36   | 12mm Fibre board built in vertically through brick walls  | m2 | 60    |  |
| <b><u>Brickwork reinforcement</u></b>  |   |    |       |  |
| 5/2/37   | 150mm Wide reinforcement built in horizontally  | m  | 2 100 |  |
| <b><u>FACE BRICKWORK:</u></b>  |   |    |       |  |
| <b><u>External facings -Opal Satin (PC 4 900.00/1000 delivered on site) pointed with square horizontal and vertical joints</u></b> |   |    |       |  |
| 5/2/38   | Extra over ordinary brickwork for facing and pointing in stretcher bond   | m2 | 734   |  |
| <b><u>Sundries</u></b>   |   |    |       |  |
| 5/2/39   | Flat wrap razor security wire in 700mm diameter vertically sloping loops complete with steel brackets fixed on top of the wall. | m  | 300   |  |
| <b><u>LETTERS, NAMEPLATES, ETC</u></b>   |   |    |       |  |
| <b><u>"Lettering for School Name on plastered back wall"</u></b>   |   |    |       |  |
| 5/2/40   | 300mm high Bronze coated lettering  | No | 30    |  |
| <b><u>PAVING BLOCKS</u></b>  |   |    |       |  |
| Carried Forward  |   |    | R     |  |
| Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING   |   |    |       |  |

| Brought Forward |   |    | R     |  |
|-----------------|---|----|-------|--|
|                 | <b><u>60mm Grey interlocking paving bricks</u></b>  |    |       |  |
| 5/2/41          | Paving bricks interlocking including water chanelns if necessary  | m2 | 2 123 |  |
|                 | <b><u>RAIN WATER HARVESTING FOR IRRIGATION</u></b>  |    |       |  |
|                 | <b><u>Rain water harvesting including underground storage tanks by specialist</u></b>   |    |       |  |
| 5/2/42          | All pipes and fittings: Material:110mm ring mains, sumps with lockable covers, overflow from sumps and tanks, tank and pourous pipe fittings, float and switch. |    | Item  |  |
| 5/2/43          | Sump and Rain Sonata: Collection and filtering of water, including chambers, filter baskets and submersible pumps.  |    | Item  |  |
| 5/2/44          | Porous pipe: not exceeding 400m   |    | Item  |  |
| 5/2/45          | 10 000Litre Plastic Water tank: 2 200mm(D) x 3 080mm (H) including plinth   |    | Item  |  |
| 5/2/46          | Electronic water level inidicator: Receiver and transmitter   |    | Item  |  |
| 5/2/47          | 130 Micron Disk filter  |    | Item  |  |
| 5/2/48          | Complete installation of the above  |    | Item  |  |
|                 | <b><u>TARRED ACCESS ROAD</u></b>  |    |       |  |
|                 | <b><u>Delivery access road to Kitchen</u></b>   |    |       |  |
| 5/2/49          | Rip and re-compact roadbed and compact to 93% Mod AASHTO density  | m3 | 60    |  |
| 5/2/50          | 150mm gravel subbase G5 material compacted to 95% Mod AASHTO density  | m3 | 57    |  |
| 5/2/51          | 150mm gravel base G4 material compacted to 97% Mod AASHTO density   | m3 | 54    |  |
| 5/2/52          | Prime coat RTH 3/12P or similar   | l  | 162   |  |
| 5/2/53          | Asphalt surfacing (30mm modified bitumen) continuously graded (max 7.5mm)   | m2 | 360   |  |
|                 | <b>Carried Forward</b>  |    | R     |  |
|                 | Section No. 5<br>External Work<br>Bill No. 2<br>SECURITY FENCING  |    |       |  |

|   | Brought Forward                        |   | R   |
|---|--|---|-----|
| 5/2/54                                      | Tack coat of 30% stable grade emulsion | l | 162 |
| 5/2/55                                      | Fig 7 kerbs                            | m | 120 |
| Carried Forward to Summary of Section No. 5 |  |   | R   |
| Section No. 5                               |  |   |     |
| External Work                               |  |   |     |
| Bill No. 2                                  |  |   |     |
| SECURITY FENCING                            |  |   |     |



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 5</u></b>  |          |      |        |
|         | <b><u>EXTERNAL WORKS</u></b>   |          |      |        |
|         | <b><u>BILL NO.3</u></b>  |          |      |        |
|         | <b><u>ACCESS ROAD</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.154 for JBCC CPAP purposes.                  |          |      |        |
|         | <hr/>  |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |      |        |
|         | <b><u>TARRED ACCESS ROAD</u></b>   |          |      |        |
|         | <b><u>Delivery access road to Kitchen</u></b>  |          |      |        |
| 5/3/1   | Rip and re-compact roadbed and compact to 93% Mod AASHTO density   | m3       | 60   |        |
| 5/3/2   | 150mm gravel subbase G5 material compacted to 95% Mod AASHTO density   | m3       | 57   |        |
| 5/3/3   | 150mm gravel base G4 material compacted to 97% Mod AASHTO density  | m3       | 54   |        |
| 5/3/4   | Prime coat RTH 3/12P or similar  | l        | 162  |        |
| 5/3/5   | Asphalt surfacing (30mm modified bitumen) continuously graded (max 7.5mm)  | m2       | 360  |        |
| 5/3/6   | Tack coat of 30% stable grade emulsion   | l        | 162  |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | Section No. 5<br>External Work<br>Bill No. 3<br>ACCESS ROAD  |          |      |        |

| Brought Forward                                    |  |    | R     |
|--|--|----|-------|
| 5/3/7  | Fig 7 kerbs  | m  | 120   |
| <b><u>PAVING BLOCKS</u></b>                        |  |    |       |
| <b><u>60mm Grey interlocking paving bricks</u></b> |  |    |       |
| 5/3/8  | Paving bricks interlocking including water chanel's if necessary | m2 | 2 123 |
| Carried Forward to Summary of Section No. 5        |  |    | R     |
| Section No. 5                                      |  |    |       |
| External Work                                      |  |    |       |
| Bill No. 3   |  |    |       |
| ACCESS ROAD  |  |    |       |

[illegible]

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 6</u></b>  |          |      |        |
|         | <b><u>ELECTRICAL WORKS</u></b>   |          |      |        |
|         | <b><u>BILL NO.1</u></b>  |          |      |        |
|         | <b><u>LV RETICULATION</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades   |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.160 for JBCC CPAP purposes.  |          |      |        |
|         | <hr/>  |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works  |          |      |        |
|         | <b><u>Electrical works to be priced on separate bill</u></b>   |          |      |        |
|         | <b><u>Excavation and Trenching</u></b>   |          |      |        |
|         | <b><u>Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.</u></b> |          |      |        |
|         | <b><u>General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services</u></b>   |          |      |        |
| 6/1/1   | Excavation and billing in soft soil  | m3       | 126  |        |
| 6/1/2   | Excavation and backfilling in hard rock - supply cable   | m3       | 54   |        |
|         | <b><u>Cable amd Sleeves</u></b>  |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | Section No. 6<br>Electrical Works<br>Bill No. 1<br>LV Reticulation   |          |      |        |

| Brought Forward |  |    |       | R   |  |
|-----------------|--|----|-------|-----|--|
|                 | <b><u>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends</u></b> |    |       |     |  |
| 6/1/3           | 110mm Diameter for power cable   | m  | 200   |     |  |
|                 | <b><u>Radius bends</u></b>   |    |       |     |  |
| 6/1/4           | 110mm Diameter   | No | 20    |     |  |
|                 | <b><u>Kiosk</u></b>  |    |       |     |  |
|                 | <u>Main Kiosk</u>  |    |       |     |  |
| 6/1/5           | Supply and install kiosk as per drawings, complete with breakers   | m  | 1     |     |  |
|                 | <b><u>Low Voltage PVC Cables</u></b>   |    |       |     |  |
|                 | <u>Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches</u>  |    |       |     |  |
| 6/1/6           | 16mm <sup>2</sup> 4 core PVC SWA Cable   | m  | 500   |     |  |
| 6/1/7           | 16mm <sup>2</sup> 2 core PVC SWA Cable   | m  | 1 200 |     |  |
| 6/1/8           | 10mm <sup>2</sup> BCEW   | m  | 1 700 |     |  |
|                 | <b><u>Treminations</u></b>   |    |       |     |  |
| 6/1/9           | 16mm <sup>2</sup> 4 core PVC SWA Cable   | No | 10    |     |  |
| 6/1/10          | 16mm <sup>2</sup> 2 core PVC SWA Cable   | No | 20    |     |  |
| 6/1/11          | 10mm <sup>2</sup> BCEW   | No | 30    |     |  |
|                 | <b><u>Electrical Tests</u></b>   |    |       |     |  |
|                 | <u>Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.</u>                     |    |       |     |  |
| 6/1/12          | Kiosk  |    |       | SUM |  |
|                 | <b><u>Others</u></b>   |    |       |     |  |
| 6/1/13          | Concrete cable markers   | No | 30    |     |  |
|                 | Carried Forward  |    |       | R   |  |
|                 | Section No. 6<br>Electrical Works<br>Bill No. 1<br>LV Reticulation   |    |       |     |  |

|   |                 |   |       |   |   |
|---|-----------------|---|-------|---|---|
|   | Brought Forward |   |       | R |   |
| 6/1/14                                      | Danger Tape     | m | 1 700 |   |   |
| Carried Forward to Summary of Section No. 6 |                 |   |       |   | R |
| Section No. 6                               |                 |   |       |   |   |
| Electrical Works                            |                 |   |       |   |   |
| Bill No. 1                                  |                 |   |       |   |   |
| LV Reticulation                             |                 |   |       |   |   |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 6</u></b></p> <p><b><u>ELECTRICAL WORKS</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>2 CLASSROOM BLOCKS</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works</p> <p><b><u>CONTRACT PRICE ADJUSTMENT PROVISIONS</u></b></p> <p><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.160 for JBCC CPAP purposes.</p> <hr/> <hr/> <p><b><u>Cable and Data Sleeves</u></b></p> <p><u>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends</u></p> |          |      |        |
| 6/2/1   | 75mm Diameter for Data  | m        | 100  |        |
| 6/2/2   | 110mm Diameter for power cable  | m        | 100  |        |
|         | <u>Radius bends:</u>  |          |      |        |
| 6/2/3   | 75mm Diameter   | No       | 12   |        |
| 6/2/4   | 110mm Diameter  | No       | 12   |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 6</p> <p>Electrical Works</p> <p>Bill No. 2</p> <p>5 x 2 Classroom blocks</p>  |          |      |        |

|        | Brought Forward   |    |       | R |  |
|--------|---|----|-------|---|--|
|        | <u>Draw Wires</u>   |    |       |   |  |
| 6/2/5  | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   | m  | 600   |   |  |
|        | <u>Distribution Boards</u>  |    |       |   |  |
|        | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards |    |       |   |  |
| 6/2/6  | SU 1 Distribution board   | No | 6     |   |  |
|        | <u>Supply, delivery and installation of SANS approved PVC Conduits completed with all required conduit accessories.</u>   |    |       |   |  |
|        | <u>Built or Chase into brick or concrete work:</u>  |    |       |   |  |
| 6/2/7  | 20mm PVC Conduit  | m  | 2 000 |   |  |
| 6/2/8  | 25mm PVC Conduit  | m  | 1 000 |   |  |
|        | <u>In Ceiling space and Timber work:</u>  |    |       |   |  |
| 6/2/9  | 20mm PVC Conduit  | m  | 800   |   |  |
| 6/2/10 | 25mm PVC Conduit  | m  | 700   |   |  |
|        | <u>Conduit Boxes</u>  |    |       |   |  |
|        | Supply and installation of SANS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.   |    |       |   |  |
| 6/2/11 | 20mm diameter 4 way type(round box)   | No | 90    |   |  |
|        | <u>Wall Boxes</u>   |    |       |   |  |
|        | Supply and installation of SANS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.  |    |       |   |  |
|        | Carried Forward   |    |       | R |  |
|        | Section No. 6<br>Electrical Works<br>Bill No. 2<br>5 x 2 Classroom blocks   |    |       |   |  |



| Brought Forward   |  |    |       | R |  |
|---|--|----|-------|---|--|
|   | <u>Flush mounted type:</u>   |    |       |   |  |
| 6/2/12  | 100 x 50 x 50mm  | No | 40    |   |  |
| 6/2/13  | 100 x 100 x 50mm   | No | 60    |   |  |
|   | <u>PVC Wiring</u>  |    |       |   |  |
|   | <u>PVC Wiring in conduits:</u>   |    |       |   |  |
| 6/2/14  | 2.5mm <sup>2</sup> for lights circuits   | m  | 3 600 |   |  |
| 6/2/15  | 4mm <sup>2</sup> for plug sockets circuits   | m  | 2 400 |   |  |
|   | <u>Stranded Bare Copper Earth Wire</u>   |    |       |   |  |
|   | <u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>  |    |       |   |  |
| 6/2/16  | 1.5mm <sup>2</sup>   | m  | 1 800 |   |  |
| 6/2/17  | 2.5mm <sup>2</sup>   | m  | 1 200 |   |  |
|   | <u>Light Switches</u>  |    |       |   |  |
|   | Supply and installation of SANS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere. |    |       |   |  |
| 6/2/18  | 1 Lever 1 way  | No | 30    |   |  |
|   | <u>Socket Outlets</u>  |    |       |   |  |
|   | Supply and installation of SANS approved switched and un-switched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  |    |       |   |  |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.   |    |       |   |  |
|   | All flush type boxes and special pedestals measured elsewhere.   |    |       |   |  |
| Carried Forward   |  |    |       | R |  |
| Section No. 6<br>Electrical Works<br>Bill No. 2<br>5 x 2 Classroom blocks |  |    |       |   |  |

|        | <b>Brought Forward</b>   |    |     | R   |  |
|--------|--|----|-----|-----|--|
|        | <u>Flush switched sockets type:</u>  |    |     |     |  |
| 6/2/19 | 16A 3 pin single socket outlets  | No | 15  |     |  |
| 6/2/20 | 16A 3 pin double socket outlets  | No | 15  |     |  |
|        | <u>Light Fittings</u>  |    |     |     |  |
|        | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |    |     |     |  |
|        | Fittings to be equal and similar approved to the below quoted manufacture.   |    |     |     |  |
| 6/2/21 | Ceiling mounted fitting 1x18W CFL - Interior   | No | 36  |     |  |
| 6/2/22 | Wall mounted Bulkhead 1 x 18W PL CFL   | No | 10  |     |  |
| 6/2/23 | 1500mm Open channel Fluorescent fitting 2x49W  | No | 60  |     |  |
|        | <u>Electrical Tests</u>  |    |     |     |  |
|        | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  |    |     |     |  |
| 6/2/24 | Building installation  |    |     | SUM |  |
|        | <u>Other</u>   |    |     |     |  |
| 6/2/25 | 1,5m earth spike complete with clamps  | No | 30  |     |  |
| 6/2/26 | 35mm <sup>2</sup> Bare copper earth wire   | m  | 300 |     |  |
| 6/2/27 | Testing and commissioning of installation  |    |     | SUM |  |
|        | <b>Carried Forward to Summary of Section No. 6</b>   |    |     | R   |  |
|        | Section No. 6  |    |     |     |  |
|        | Electrical Works   |    |     |     |  |
|        | Bill No. 2   |    |     |     |  |
|        | 5 x 2 Classroom blocks   |    |     |     |  |

| Item No   | Quantity                       | Rate | Amount |
|---|--------------------------------|------|--------|
| <b><u>SECTION 6</u></b>   |                                |      |        |
| <b><u>ELECTRICAL WORKS</u></b>  |                                |      |        |
| <b><u>BILL NO. 3</u></b>  |                                |      |        |
| <b><u>3 CLASSROOM BLOCK</u></b>   |                                |      |        |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades  |                                |      |        |
| The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works                 |                                |      |        |
| <b><u>CONTRACT PRICE ADJUSTMENT PROVISIONS</u></b>  |                                |      |        |
| NOTE: Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.160 for JBCC CPAP purposes.                                      |                                |      |        |
| <hr/>   |                                |      |        |
| <hr/>   |                                |      |        |
| <b><u>Cable and Data Sleeves</u></b>  |                                |      |        |
| <u>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends</u> |                                |      |        |
| 6/3/1   | 75mm Diameter for Data         | m    | 100    |
| 6/3/2   | 110mm Diameter for power cable | m    | 100    |
| <u>Radius bends:</u>  |                                |      |        |
| 6/3/3   | 75mm Diameter                  | No   | 12     |
| 6/3/4   | 110mm Diameter                 | No   | 12     |
| <b>Carried Forward</b>  |                                |      | R      |
| Section No. 6<br>Electrical Works<br>Bill No. 3<br>3 x 3Classroom blocks  |                                |      |        |

| Brought Forward   |  |    |       | R |  |
|---|--|----|-------|---|--|
|   | <u>Draw Wires</u>  |    |       |   |  |
| 6/3/5   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation  | m  | 1 000 |   |  |
|   | <b><u>Distribution Boards</u></b>  |    |       |   |  |
|   | <u>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</u> |    |       |   |  |
| 6/3/6   | SU 1 Distribution board  | No | 4     |   |  |
|   | <u>Supply, delivery and installation of SANS approved PVC Conduits completed with all required conduit accessories.</u>  |    |       |   |  |
|   | <u>Built or Chase into brick or concrete work:</u>   |    |       |   |  |
| 6/3/7   | 20mm PVC Conduit   | m  | 2 000 |   |  |
| 6/3/8   | 25mm PVC Conduit   | m  | 1 000 |   |  |
|   | <u>In Ceiling space and Timber work:</u>   |    |       |   |  |
| 6/3/9   | 20mm PVC Conduit   | m  | 800   |   |  |
| 6/3/10  | 25mm PVC Conduit   | m  | 700   |   |  |
|   | <b><u>Conduit Boxes</u></b>  |    |       |   |  |
|   | Supply and installation of SANS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.  |    |       |   |  |
| 6/3/11  | 20mm diameter 4 way type(round box)  | No | 90    |   |  |
|   | <b><u>Wall Boxes</u></b>   |    |       |   |  |
|   | Supply and installation of SANS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.   |    |       |   |  |
| Carried Forward   |  |    |       | R |  |
| Section No. 6<br>Electrical Works<br>Bill No. 3<br>3 x 3 Classroom blocks |  |    |       |   |  |

| Brought Forward  |  |    |       | R |  |
|--|--|----|-------|---|--|
|  | <u>Flush mounted type:</u>   |    |       |   |  |
| 6/3/12   | 100 x 50 x 50mm  | No | 20    |   |  |
| 6/3/13   | 100 x 100 x 50mm   | No | 30    |   |  |
|  | <u>PVC Wiring</u>  |    |       |   |  |
|  | <u>PVC Wiring in conduits:</u>   |    |       |   |  |
| 6/3/14   | 2.5mm <sup>2</sup> for lights circuits   | m  | 2 400 |   |  |
| 6/3/15   | 4mm <sup>2</sup> for plug sockets circuits   | m  | 1 600 |   |  |
|  | <u>Stranded Bare Copper Earth Wire</u>   |    |       |   |  |
|  | <u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>  |    |       |   |  |
| 6/3/16   | 1.5mm <sup>2</sup>   | m  | 1 200 |   |  |
| 6/3/17   | 2.5mm <sup>2</sup>   | m  | 800   |   |  |
|  | <u>Light Switches</u>  |    |       |   |  |
|  | Supply and installation of SANS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere. |    |       |   |  |
| 6/3/18   | 1 Lever 1 way  | No | 20    |   |  |
|  | <u>Socket Outlets</u>  |    |       |   |  |
|  | Supply and installation of SANS approved switched and un-switched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  |    |       |   |  |
|  | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.   |    |       |   |  |
|  | All flush type boxes and special pedestals measured elsewhere.   |    |       |   |  |
| Carried Forward  |  |    |       | R |  |
| Section No. 6<br>Electrical Works<br>Bill No. 3<br>3 x 3Classroom blocks |  |    |       |   |  |

|        | Brought Forward  |    |     | R   |  |
|--------|--|----|-----|-----|--|
|        | <u>Flush switched sockets type:</u>  |    |     |     |  |
| 6/3/19 | 16A 3 pin single socket outlets  | No | 15  |     |  |
| 6/3/20 | 16A 3 pin double socket outlets  | No | 15  |     |  |
|        | <u>Light Fittings</u>  |    |     |     |  |
|        | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |    |     |     |  |
|        | Fittings to be equal and similar approved to the below quoted manufacture.   |    |     |     |  |
| 6/3/21 | Ceiling mounted fitting 1x18W CFL - Interior   | No | 30  |     |  |
| 6/3/22 | Wall mounted Bulkhead 1 x 18W PL CFL   | No | 10  |     |  |
| 6/3/23 | 1500mm Open channel Fluorescent fitting 2x49W  | No | 50  |     |  |
|        | <u>Electrical Tests</u>  |    |     |     |  |
|        | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  |    |     |     |  |
| 6/3/24 | Building installation  |    |     | SUM |  |
|        | <u>Other</u>   |    |     |     |  |
| 6/3/25 | 1,5m earth spike complete with clamps  | No | 12  |     |  |
| 6/3/26 | 35mm <sup>2</sup> Bare copper earth wire   | m  | 300 |     |  |
| 6/3/27 | Testing and commissioning of installation  |    |     | SUM |  |
|        | <b>Carried Forward to Summary of Section No. 6</b>   |    |     | R   |  |
|        | Section No. 6  |    |     |     |  |
|        | Electrical Works   |    |     |     |  |
|        | Bill No. 3   |    |     |     |  |
|        | 3 x 3Classroom blocks  |    |     |     |  |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 6</u></b>   |          |      |        |
|         | <b><u>ELECTRICAL WORKS</u></b>  |          |      |        |
|         | <b><u>BILL NO. 4</u></b>  |          |      |        |
|         | <b><u>MEDIA CENTRE</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                    |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works |          |      |        |
|         | <b><u>CONTRACT PRICE ADJUSTMENT PROVISIONS</u></b>  |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.160 for JBCC CPAP purposes.               |          |      |        |
|         | <hr/>   |          |      |        |
|         | <b><u>Cable and Data Sleeves</u></b>  |          |      |        |
|         | Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard rad        |          |      |        |
| 6/4/1   | 75mm Diameter for Data  | m        | 15   |        |
| 6/4/2   | 110mm Diameter for power cable  | m        | 15   |        |
|         | <u>Radius bends:</u>  |          |      |        |
| 6/4/3   | 75mm Diameter   | No       | 2    |        |
| 6/4/4   | 110mm Diameter  | No       | 2    |        |
|         | <u>Draw Wires</u>   |          |      |        |
| 6/4/5   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   | m        | 300  |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 6<br>Electrical Works<br>Bill No. 4<br>Media Centre   |          |      |        |

| Brought Forward |  |    |     | R |  |
|-----------------|--|----|-----|---|--|
|                 | <u>Distribution Boards</u>   |    |     |   |  |
|                 | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper bus bars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards |    |     |   |  |
| 6/4/6           | SU 1 Distribution board  | No | 1   |   |  |
|                 | Supply, delivery and installation of SANS approved PVC Conduits completed with all required conduit accessories.   |    |     |   |  |
|                 | <u>Built or Chase into brick or concrete work:</u>   |    |     |   |  |
| 6/4/7           | 20mm PVC Conduit   | m  | 600 |   |  |
| 6/4/8           | 25mm PVC Conduit   | m  | 300 |   |  |
|                 | <u>In Ceiling space and Timber work:</u>   |    |     |   |  |
| 6/4/9           | 20mm PVC Conduit   | m  | 300 |   |  |
| 6/4/10          | 25mm PVC Conduit   | m  | 200 |   |  |
|                 | <u>Conduit Boxes</u>   |    |     |   |  |
|                 | Supply and installation of SANS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.  |    |     |   |  |
| 6/4/11          | 20mm diameter 4 way type(round box)  | No | 34  |   |  |
|                 | <u>Wall Boxes</u>  |    |     |   |  |
|                 | Supply and installation of SANS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.   |    |     |   |  |
|                 | <u>Flush mounted type:</u>   |    |     |   |  |
| 6/4/12          | 100 x 50 x 50mm  | No | 4   |   |  |
| 6/4/13          | 100 x 100 x 50mm   | No | 12  |   |  |
|                 | <b>Carried Forward</b>   |    |     | R |  |
|                 | Section No. 6<br>Electrical Works<br>Bill No. 4<br>Media Centre  |    |     |   |  |



| Brought Forward |  |    |       | R |  |
|-----------------|--|----|-------|---|--|
|                 | <u>PVC Wiring</u>  |    |       |   |  |
|                 | <u>PVC Wiring in conduits:</u>   |    |       |   |  |
| 6/4/14          | 2.5mm <sup>2</sup> for lights circuits   | m  | 1 000 |   |  |
| 6/4/15          | 4mm <sup>2</sup> for plug sockets circuits   | m  | 600   |   |  |
| 6/4/16          | 6mm <sup>2</sup> for plug sockets circuits   | m  | 200   |   |  |
|                 | <u>Stranded Bare Copper Earth Wire</u>   |    |       |   |  |
|                 | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.   |    |       |   |  |
| 6/4/17          | 1.5mm <sup>2</sup>   | m  | 500   |   |  |
| 6/4/18          | 2.5mm <sup>2</sup>   | m  | 300   |   |  |
|                 | <u>Light Switches</u>  |    |       |   |  |
|                 | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere. |    |       |   |  |
| 6/4/19          | 1 Lever 1 way  | No | 6     |   |  |
| 6/4/20          | 2Lever 2way  | No | 6     |   |  |
|                 | <u>Socket Outlets</u>  |    |       |   |  |
|                 | Supply and installation of SANS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.   |    |       |   |  |
|                 | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.   |    |       |   |  |
|                 | All flush type boxes and special pedestals measured elsewhere.   |    |       |   |  |
|                 | <b>Carried Forward</b>   |    |       | R |  |
|                 | Section No. 6<br>Electrical Works<br>Bill No. 4<br>Media Centre  |    |       |   |  |

|        | Brought Forward  |    |    | R   |  |
|--------|--|----|----|-----|--|
|        | <u>Flush switched sockets type:</u>  |    |    |     |  |
| 6/4/21 | 16A 3 pin double socket outlets  | No | 8  |     |  |
|        | <b><u>Light Fittings</u></b>   |    |    |     |  |
|        | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |    |    |     |  |
|        | Fittings to be equal and similar approved to the below quoted manufacture.   |    |    |     |  |
| 6/4/22 | Ceiling mounted fitting 1x18W CFL - Interior   | No | 2  |     |  |
| 6/4/23 | Wall mounted Bulkhead 2 x 18W PL CFL   | No | 6  |     |  |
| 6/4/24 | 1200 Open channel fluorescent fitting 2 x 49w  | No | 5  |     |  |
| 6/4/25 | 1200 x 600 Recessed fluorescent 3 x 28W LBR  | No | 20 |     |  |
| 6/4/26 | 1200mm open channel fluorescent fitting 2 x 28W  | No | 4  |     |  |
| 6/4/27 | 1 X 18W CFL circular downlighters  | No | 4  |     |  |
|        | <b><u>Electrical Tests</u></b>   |    |    |     |  |
|        | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  |    |    |     |  |
| 6/4/28 | Building installation  |    |    | SUM |  |
|        | <b><u>Other</u></b>  |    |    |     |  |
| 6/4/29 | 300 x 300mm Telephone DB   | No | 1  |     |  |
| 6/4/30 | 100 X 100 X 50mm draw box for communication complete with blank cover  | No | 1  |     |  |
| 6/4/31 | Power skirting 2 compartment c/w divider   | m  | 30 |     |  |
| 6/4/32 | Telephone points   | No | 6  |     |  |
| 6/4/33 | Data points  | No | 6  |     |  |
|        | <b>Carried Forward</b>   |    |    | R   |  |
|        | Section No. 6<br>Electrical Works<br>Bill No. 4<br>Media Centre  |    |    |     |  |

|        | Brought Forward   |    |      | R   |           |
|--------|---|----|------|-----|-----------|
| 6/4/34 | 20A Isolator  | No | 1    |     |           |
| 6/4/35 | 30A Isolator  | No | 1    |     |           |
| 6/4/36 | 40A Isolator  | No | 2    |     |           |
| 6/4/37 | 1,5m Earth spike complete with clamps   | No | 4    |     |           |
| 6/4/38 | 35mm2 Bare copper earth wire  | m  | 40   |     |           |
| 6/4/39 | Testing and commissioning of installation   |    |      | SUM |           |
|        | <u>Budgetary amount</u>   |    |      |     |           |
| 6/4/40 | Internet Wi-fi  |    | Item |     | 10 000.00 |
| 6/4/41 | Overhead and profit.  |    |      | %   |           |
|        | <b><u>AIRCONDITIONING</u></b>   |    |      |     |           |
|        | <u>Supply, installation, commissioning and testing of HVAC equipment complete with electric wiring, connection and controls</u>   |    |      |     |           |
| 6/4/42 | Console Wall Unit of R410a refrigerant with Nominal Cooling 2.600kW , 3.05kW Heating. Air Flow of 208l/s , Fresh air flow of 31.2l/s in Offices, complete with new filters for fresh air Louvre as well as controls | No | 7    |     |           |
|        | <u>Mid wall split unit</u>  |    |      |     |           |
| 6/4/43 | Inverter mid wall split unit, nominal cooling capacity of 2,6kw. Nominal heating capacity of 2,8kw.   | No | 7    |     |           |
| 6/4/44 | PVC drain pipe.   | m  | 35   |     |           |
| 6/4/45 | Refrigerant pipe for liquid.  | m  | 35   |     |           |
| 6/4/46 | Refrigerant pipe for gas.   | m  | 35   |     |           |
| 6/4/47 | Support brackets.   | No | 30   |     |           |
|        | <b>Carried Forward to Summary of Section No. 6</b>  |    |      | R   |           |
|        | Section No. 6   |    |      |     |           |
|        | Electrical Works  |    |      |     |           |
|        | Bill No. 4  |    |      |     |           |
|        | Media Centre  |    |      |     |           |

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 6</u></b>   |          |      |        |
|         | <b><u>ELECTRICAL WORKS</u></b>  |          |      |        |
|         | <b><u>BILL NO. 5</u></b>  |          |      |        |
|         | <b><u>AREA LIGHTING</u></b>   |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                    |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works |          |      |        |
|         | <b><u>CONTRACT PRICE ADJUSTMENT PROVISIONS</u></b>  |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.160 for JBCC CPAP purposes.               |          |      |        |
|         | <hr/>   |          |      |        |
|         | <b><u>PUBLIC LIGHTING</u></b>   |          |      |        |
| 6/5/1   | 57W Post top fitting, To be approved by the Engineer.   | No       | 15   |        |
| 6/5/2   | 3m galvanised steel poles, painted blue   | No       | 15   |        |
| 6/5/3   | Bollards light fittings complete with lamps   | No       | 1    |        |
| 6/5/4   | Excavation and backfilling in soft soil   | m3       | 27   |        |
| 6/5/5   | Excavation and backfilling in hard rock.  | m3       | 9    |        |
| 6/5/6   | 6mm2 4core PVC SWA Cable  | m        | 400  |        |
| 6/5/7   | 4mm2 BCEW.  | m        | 400  |        |
|         | <u>Terminations</u>   |          |      |        |
| 6/5/8   | 6mm2 4core PVC SWA Cable  | No       | 30   |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 6<br>Electrical Works<br>Bill No. 5<br>Area Lighting  |          |      |        |

| Brought Forward                             |                        |    | R   |
|---|------------------------|----|-----|
| 6/5/9                                       | 4mm2 BCEW              | No | 30  |
| 6/5/10                                      | Electrical Danger tape | m  | 400 |
| Carried Forward to Summary of Section No. 6 |                        |    | R   |
| Section No. 6                               |                        |    |     |
| Electrical Works                            |                        |    |     |
| Bill No. 5                                  |                        |    |     |
| Area Lighting                               |                        |    |     |

[illegible]

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>SECTION 7</u></b>   |          |      |        |
|         | <b><u>GRADE-R PLAY EQUIPMENTS</u></b>   |          |      |        |
|         | <b><u>BILL NO.1</u></b>   |          |      |        |
|         | <b><u>EDUCATIONAL TOYS AND EQUIPMENTS</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                    |          |      |        |
|         | <u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.132 for JBCC CPAP purposes.               |          |      |        |
|         | <hr/>   |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with letters LI as described in the scope of works |          |      |        |
|         | <b><u>INDOOR FURNITURE</u></b>  |          |      |        |
|         | <u>Supply and delivery of the following in Grade-R Block</u>  |          |      |        |
| 7/1/1   | Jolly chairs  | No       | 160  |        |
| 7/1/2   | Jolly tables.   | No       | 40   |        |
| 7/1/3   | Teachers tables.  | No       | 4    |        |
| 7/1/4   | Water through stand.  | No       | 4    |        |
| 7/1/5   | TV set with DVD player.   | No       | 8    |        |
| 7/1/6   | Pigeon holes.   | No       | 4    |        |
|         | <u>The following in outdoors</u>  |          |      |        |
| 7/1/7   | Wooden jungle gym.  | No       | 2    |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | Section No. 7<br>Grade-R Play Equipments<br>Bill No. 1<br>Educational Toys and Equipments   |          |      |        |

|        | Brought Forward   |    |      | R |  |
|--------|---|----|------|---|--|
| 7/1/8  | 3 Seater swing.   | No | 2    |   |  |
| 7/1/9  | See-saw   | No | 2    |   |  |
| 7/1/10 | Trampoline.   | No | 2    |   |  |
| 7/1/11 | Sand pit with shade.  |    | Item |   |  |
|        | <u>Educational toys</u>   |    |      |   |  |
| 7/1/12 | Hoolahoops.   | No | 40   |   |  |
| 7/1/13 | Small Truck.  | No | 20   |   |  |
| 7/1/14 | Medium buses  | No | 20   |   |  |
| 7/1/15 | Brum  | No | 40   |   |  |
| 7/1/16 | Ball  | No | 20   |   |  |
| 7/1/17 | Skipping rope.  | No | 40   |   |  |
| 7/1/18 | Farm animals  | No | 40   |   |  |
|        | <u>Musical</u>  |    |      |   |  |
| 7/1/19 | Guitar  | No | 20   |   |  |
| 7/1/20 | Marakus my band   | No | 20   |   |  |
| 7/1/21 | Bending bells.  | No | 20   |   |  |
| 7/1/22 | Tambourine large.   | No | 20   |   |  |
| 7/1/23 | Caster net.   | No | 20   |   |  |
|        | <u>Fantasy area</u>   |    |      |   |  |
| 7/1/24 | Microwave.  | No | 4    |   |  |
| 7/1/25 | Washing machine.  | No | 4    |   |  |
| 7/1/26 | Small stove   | No | 4    |   |  |
| 7/1/27 | Bean bag  | No | 80   |   |  |
| 7/1/28 | Step and catch  | No | 20   |   |  |
|        | <b>Carried Forward</b>  |    |      | R |  |
|        | Section No. 7<br>Grade-R Play Equipments<br>Bill No. 1<br>Educational Toys and Equipments |    |      |   |  |



|        | Brought Forward   |    |    | R |  |
|--------|---|----|----|---|--|
| 7/1/29 | Balancing beam.   | No | 20 |   |  |
| 7/1/30 | Ironing board.  | No | 16 |   |  |
| 7/1/31 | Iron.   | No | 20 |   |  |
| 7/1/32 | Baby cot.   | No | 8  |   |  |
| 7/1/33 | Posting boxes.  | No | 20 |   |  |
| 7/1/34 | Anatomical doll.  | No | 16 |   |  |
| 7/1/35 | Blankets.   | No | 40 |   |  |
| 7/1/36 | Cooking pot set.  | No | 20 |   |  |
| 7/1/37 | Cups and saucers.   | No | 20 |   |  |
| 7/1/38 | Tea and pot set.  | No | 20 |   |  |
| 7/1/39 | Trays.  | No | 8  |   |  |
| 7/1/40 | Doctors set.  | No | 20 |   |  |
|        | <u>Puzzle</u>   |    |    |   |  |
| 7/1/41 | Puzzles assorted.   | No | 80 |   |  |
| 7/1/42 | Building blocks wooden.   | No | 20 |   |  |
| 7/1/43 | Building blocks pack.   | No | 20 |   |  |
| 7/1/44 | Puzzle house.   | No | 20 |   |  |
| 7/1/45 | Puzzle man  | No | 20 |   |  |
| 7/1/46 | Puzzle geometric.   | No | 20 |   |  |
| 7/1/47 | Puzzle train.   | No | 20 |   |  |
| 7/1/48 | Puzzle fruit.   | No | 20 |   |  |
| 7/1/49 | Bucket with shapes.   | No | 20 |   |  |
|        | <u>Art</u>  |    |    |   |  |
| 7/1/50 | Rolling pin.  | No | 12 |   |  |
|        | Carried Forward   |    |    | R |  |
|        | Section No. 7<br>Grade-R Play Equipments<br>Bill No. 1<br>Educational Toys and Equipments |    |    |   |  |

|        | <b>Brought Forward</b>  |    |    | R |  |
|--------|---|----|----|---|--|
| 7/1/51 | Dough.  | No | 60 |   |  |
| 7/1/52 | Dough cutter wheel.   | No | 12 |   |  |
| 7/1/53 | Glue spreaders  | No | 40 |   |  |
| 7/1/54 | Leech powder glue.  | No | 12 |   |  |
| 7/1/55 | Chalk board big.  | No | 12 |   |  |
| 7/1/56 | Coloured chalk.   | No | 40 |   |  |
| 7/1/57 | Chalk board duster.   | No | 12 |   |  |
|        | <u>Sand play</u>  |    |    |   |  |
| 7/1/58 | Large spade.  | No | 40 |   |  |
| 7/1/59 | Bucket.   | No | 40 |   |  |
| 7/1/60 | Trowel  | No | 40 |   |  |
| 7/1/61 | Mini spade and rake set   | No | 40 |   |  |
| 7/1/62 | Buchet with water wheel.  | No | 40 |   |  |
| 7/1/63 | Beach moulds  | No | 40 |   |  |
| 7/1/64 | Sieve.  | No | 40 |   |  |
|        | <u>Powder paints, brushes etc.</u>  |    |    |   |  |
| 7/1/65 | Aprons kids   | No | 80 |   |  |
| 7/1/66 | Rolfes tempera 2kg  | No | 40 |   |  |
| 7/1/67 | Paint pot wit stand.  | No | 40 |   |  |
|        | <u>Stationary and books</u>   |    |    |   |  |
| 7/1/68 | Colouring books.  | No | 40 |   |  |
| 7/1/69 | Story books   | No | 40 |   |  |
| 7/1/70 | Prestik   | No | 40 |   |  |
| 7/1/71 | Scissors  | No | 80 |   |  |
|        | <b>Carried Forward</b>  |    |    | R |  |
|        | Section No. 7<br>Grade-R Play Equipments<br>Bill No. 1<br>Educational Toys and Equipments |    |    |   |  |



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION 8</u></b>  |          |      |        |
|         | <b><u>SCHOOL FURNITURE</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades                                       |          |      |        |
|         | <br><u>NOTE:</u> Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No.126 for JBCC CPAP purposes.              |          |      |        |
|         | <br><hr/>  |          |      |        |
|         | The contractor will be required to use labour intensive methods for the items which have been marked with the letters LI as described in the Scope of Work |          |      |        |
|         | <b><u>FOUR CLASSROOM FURNITURE</u></b>   |          |      |        |
|         | <b><u>13 X 4CLASSROOM BLOCKS</u></b>   |          |      |        |
| 8/1/1   | Single combination desks   | No       | 520  |        |
| 8/1/2   | 1200 x 600 Teachers desks with 2Drawer fixed pedestal  | No       | 52   |        |
| 8/1/3   | Upholstered Teachers chair   | m        | 52   |        |
| 8/1/4   | Transport  | No       | 1    |        |
|         | <b><u>Nutrition centre</u></b>   |          |      |        |
| 8/1/5   | Built in cabinets size 850 x 738 with 4 bottom drawers   | No       | 1    |        |
| 8/1/6   | Built in cabinets size 720 x 738mm with 2top doors   | No       | 1    |        |
| 8/1/7   | Built in cabinets size 1725 x 850mm with 4bottom doors   | No       | 1    |        |
| 8/1/8   | Built in cabinets size 1725 x 720mm with 4top doors  | No       | 1    |        |
| 8/1/9   | Built in cabinets size 1761 x 850mm with 4Bottom doors   | No       | 1    |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | Section No. 8<br>FURNITURE<br>Bill No. 1<br>School furniture   |          |      |        |

|        | Brought Forward  |    |    | R |  |
|--------|--|----|----|---|--|
| 8/1/10 | Built in cabinets size 1761 x 720mm with 4top doors          | No | 1  |   |  |
| 8/1/11 | Built in cabinets size 1920 x 850mm with 6Bottom doors       | No | 1  |   |  |
|        | <b><u>DELIVERY STORE</u></b>                                 |    |    |   |  |
| 8/1/12 | 4900 X 450mm shelving  | No | 5  |   |  |
| 8/1/13 | 2985 X 450mm shelving  | No | 3  |   |  |
| 8/1/14 | 3758 X 450mm shelving  | No | 5  |   |  |
| 8/1/15 | 6307 X 340mm shelving  | No | 10 |   |  |
|        | <b><u>DINNING AREA</u></b>                                   |    |    |   |  |
| 8/1/16 | Benches  | No | 4  |   |  |
| 8/1/17 | Granite top  | No | 1  |   |  |
| 8/1/18 | Transport  | No | 1  |   |  |
|        | <b><u>ADMINISTRATION BLOCK</u></b>                           |    |    |   |  |
|        | <b><u>PRINCIPAL</u></b>                                      |    |    |   |  |
| 8/1/19 | Executive desk with side table                               | No | 1  |   |  |
| 8/1/20 | High back chair in fabric                                    | No | 1  |   |  |
| 8/1/21 | Low back visitors chair in fabric                            | No | 2  |   |  |
| 8/1/22 | 4Seater executive meeting table                              | No | 1  |   |  |
| 8/1/23 | Meeting chairs in fabric                                     | No | 4  |   |  |
|        | <b><u>VICE PRINCIPAL</u></b>                                 |    |    |   |  |
| 8/1/24 | Executive desk with side table                               | No | 1  |   |  |
| 8/1/25 | High back chair in fabric                                    | No | 1  |   |  |
| 8/1/26 | Low back visitors chair in fabric                            | No | 2  |   |  |
|        | <b><u>GENERAL OFFICE</u></b>                                 |    |    |   |  |
| 8/1/27 | Executive desk with side table                               | No | 2  |   |  |
|        | <b>Carried Forward</b>                                       |    |    | R |  |
|        | Section No. 8<br>FURNITURE<br>Bill No. 1<br>School furniture |    |    |   |  |

|        | Brought Forward   |    |    | R |  |
|--------|---|----|----|---|--|
| 8/1/28 | High back chair in fabric   | No | 2  |   |  |
| 8/1/29 | Low back visitors chair in fabric   | No | 4  |   |  |
|        | <u>RECEPTION</u>  |    |    |   |  |
| 8/1/30 | Upholstered high back chair   | No | 1  |   |  |
|        | <u>STAFF ROOM</u>   |    |    |   |  |
| 8/1/31 | Meeting table   | No | 14 |   |  |
| 8/1/32 | Meeting chairs  | No | 20 |   |  |
|        | <u>PRINT ROOM</u>   |    |    |   |  |
| 8/1/33 | Print room chair  | No | 1  |   |  |
|        | <u>SICK ROOM</u>  |    |    |   |  |
| 8/1/34 | Single metal frame and mattress SANS approved including sets of linen including pillow. | No | 1  |   |  |
| 8/1/35 | Medicine cabinet  | No | 1  |   |  |
| 8/1/36 | First aid kit   | No | 1  |   |  |
| 8/1/37 | Transport   | No | 1  |   |  |
|        | <u>COMPUTER LABORATORY</u>  |    |    |   |  |
| 8/1/38 | Computer Saligna table size 1200 x 700 x 750mm with CPU holder.                         | No | 40 |   |  |
|        | <u>SCIENCE LABORATORY</u>   |    |    |   |  |
| 8/1/39 | Office desks size 1500 x 850 x 750mm high with 2drawers.                                | No | 40 |   |  |
| 8/1/40 | Glazed door book case 900 x 360 x 1500mm high.  | No | 2  |   |  |
| 8/1/41 | Filing steel cabinets size 465 x 625 x 1300mm with 4drawers.                            | No | 2  |   |  |
| 8/1/42 | Stationery cupboard size 900 x 450 x 1800mm high with 2doors steel.                     | No | 2  |   |  |
|        | <b>Carried Forward</b>  |    |    | R |  |
|        | Section No. 8<br>FURNITURE<br>Bill No. 1<br>School furniture                            |    |    |   |  |

| Brought Forward  |   |       | R |
|--|---|-------|---|
| 8/1/43   | Stationery cupboard size 900 x 450 x 900mm high with 2doors steel.          | No 2  |   |
| 8/1/44   | Teachers chair with no arm 4legged upholstered.                             | No 1  |   |
| 8/1/45   | Notice board size 1200 x 900mm high with carpet surface and aluminium frame | No 2  |   |
| 8/1/46   | Teachers demonstration desks size 2250 x 610 x 975mm high saligna.          | No 1  |   |
| 8/1/47   | Student service station 1200 x 600 x 975mm high                             | No 2  |   |
| 8/1/48   | Laboratory table size 1100 x 1150 x 840mm high with shelf.                  | No 3  |   |
| 8/1/49   | Laboratory stool size 460mm 3legged poly-propyelene.                        | No 20 |   |
| 8/1/50   | Laboratory stool 690mm 3legged poly-propylene.                              | No 20 |   |
| 8/1/51   | Delivery and installation   | Item  |   |
| Carried to Final Summary                                     |   |       | R |
| Section No. 8<br>FURNITURE<br>Bill No. 1<br>School furniture |   |       |   |

| Item No |   | Quantity | Rate | Amount     |
|---------|---|----------|------|------------|
|         | <b><u>SECTION NO. 9</u></b>   |          |      |            |
|         | <b><u>BILL NO. 1</u></b>  |          |      |            |
|         | <b><u>PROVISIONAL SUMS</u></b>  |          |      |            |
|         | <b><u>PROVISIONAL AMOUNTS</u></b>   |          |      |            |
|         | All provisional sums are nett and exclude builder's discount. The contractor is referred to the preliminaries in this regard. The contractor is to allow for profit and attendance under the relevant item and must note that he is required to allow for giving every facility to, attending upon, profit and making good in all trades after the specialists have completed their work. |          |      |            |
|         | <b><u>JOINERY FITTING</u></b>   |          |      |            |
| 9/1/1   | Provide the sum of R390, 000.00 (Three Hundred and Ninety thousands rands) for <b>joinery fittings</b> to be used as directed by the principal agent and deducted in whole or in part if not required   | Item     |      | 390 000.00 |
| 9/1/2   | Allow for profit  |          | %    |            |
| 9/1/3   | Allow for attendance  |          | %    |            |
|         | <b><u>BOREHOLE</u></b>  |          |      |            |
| 9/1/4   | Allow the sum R195,000.00 (One Hundred and Ninety five thousands rand) (net) for Borehole installation, complete with 10 000L on 10m high stand; including all necessary pipe work and valves to be performed by a firm of Specialist   | Item     |      | 195 000.00 |
| 9/1/5   | Profit on last if required  |          | %    |            |
| 9/1/6   | Attendance in connection with Borehole installation   |          | %    |            |
|         | <b><u>LANDSCAPING</u></b>   |          |      |            |
| 9/1/7   | Provide the sum of R90, 000.00 (Ninety thousands rands) for <b>Landscaping - Trees and lawn</b> to be used as directed by the principal agent and deducted in whole or in part if not required  | Item     |      | 90 000.00  |
|         | <b>Carried Forward</b>  |          | R    |            |
|         | Section No. 9<br>Provisional Sums<br>Bill No. 1<br>PROVISIONAL SUMS   |          |      |            |



| Brought Forward   |                      | R |
|---|----------------------|---|
| 9/1/8   | Allow for profit     | % |
| 9/1/9   | Allow for attendance | % |
| Carried to Final Summary  |                      | R |
| Section No. 9<br>Provisional Sums<br>Bill No. 1<br>PROVISIONAL SUMS |                      |   |

| FINAL SUMMARY   |                              |         |      |   | Amount       |
|---|------------------------------|---------|------|---|--------------|
| Section No  |                              | Page No |      |   |              |
| 1   | Preliminaries                | 24      |      |   |              |
| 2   | Alterations                  | 27      |      |   |              |
| 3   | New School                   | 69      |      |   |              |
| 4   | Combi Court And Soccer Field | 83      |      |   |              |
| 5   | External Work                | 99      |      |   |              |
| 6   | Electrical Works             | 118     |      |   |              |
| 7   | Grade-R Play Equipments      | 123     |      |   |              |
| 8   | FURNITURE                    | 127     |      |   |              |
| 9   | Provisional Sums             | 129     |      |   |              |
| SUBTOTAL  |                              |         |      | R |              |
| <b>CONTRACT PRICE ADJUSTMENT PROVISION</b>              |                              |         |      |   |              |
| Sum of R2 200 000 For Contract Price fluctuation (CPAP) |                              |         | Item |   | 2 200 000.00 |
| SUBTOTAL  |                              |         |      | R |              |
| Add VAT at 15%  |                              |         |      | R |              |
| Carried to Form of Tender                               |                              |         |      | R |              |