| DESCRIPTION   | UNIT | QUANTITY | RATE | AMOUNT |
|---|------|----------|------|--------|
| SECTION 1   |      |          |      |        |
| BILL NO. 1  |      |          |      |        |
| PRELIMINARIES   |      |          |      |        |
| MEANING OF TERMS "TENDER / TENDERER"  |      |          |      |        |
| Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"   |      |          |      |        |
| PRELIMINARIES   |      |          |      |        |
| The JBCC Preliminaries Code 2103, May 2005 edition for use with he JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable" |      |          |      |        |
| PRICING OF PRELIMINARIES  |      |          |      |        |
| Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item  |      |          |      |        |
| Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities   |      |          |      |        |
| SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT  |      |          |      |        |
| DEFINITIONS   |      |          |      |        |
| No clause Fixed: Value related: Time related:   | Item |          |      |        |
| OBJECTIVE AND PREPARATION   |      |          |      |        |
| A2.0 OFFER, ACCEPTANCE AND PERFORMANCE  |      |          |      |        |
| Clause 2.0  |      |          |      |        |
| Fixed: Value related: Time related:   | Item |          |      |        |
| A3.0 DOCUMENTS  |      |          |      |        |
| Clause 3.0  |      |          |      |        |
| Clause 3.2.1 is amended by replacing"14.1" with "14.0"  |      |          |      |        |
| Clause 3.7 is amended by the addition of the following:   |      |          |      |        |
| The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times  |      |          |      |        |
| Carried Forward   |      |          |      |        |
| Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries  |      |          |      |        |

| Brought Forw   | /ard |
|--|------|
| Clause 3.10 is amended by replacing the second reference to  |      |
| "principal agent" with the word "employer"   |      |
| No clause  |      |
| Fixed: Value related: Time related:  | Item |
| A4.0 DESIGN RESPONSIBILITY   |      |
| Clause 4.0   |      |
| Clause 4.3 is amended by replacing it with the following:  |      |
| No clause  |      |
| No clause Fixed: Value related:  | Item |
| Time related:  |      |
| A5.0 EMPLOYER'S AGENTS   |      |
| Clause 5.0   |      |
| Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4  |      |
| and 38.5.8   |      |
| Fixed: Value related: Time related:  | Item |
| A6.0 SITE REPRESENTATIVE   |      |
| Clause 6.0   |      |
| Fixed: Value related: Time   | Item |
| related:   |      |
| A7.0 COMPLIANCE WITH REGULATIONS   |      |
| Clause 7.0   |      |
| Note: A separate clause has been included in Section C : Speci   |      |
| Preliminaries of the bills of quantities / lump sum document for contractor to have the opportunity to price for all the requirement |      |
| of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification                              |      |
|  |      |
| Fixed: Value related: Time related:  | Item |
| A8.0 WORKS RISK  |      |
| Clause 8.0   |      |
| Fixed: Value related: Time   | Item |
| related:   |      |
|  |      |
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| Carried Forw   | /ard |
| Section No. 1<br>SECTION 1 - PRELIMINARY AND GENERAL   |      |
| Bill No. 1   |      |
| Preliminaries  |      |

|  |   | Brought Forward  | ı    |
|--|---|--|------|
| A9.0 INDE  | MNITIES   |  |      |
| Clause 9.0   |   |  |      |
|  | Value related:  | Time   | Item |
| and/or dam<br>consequent<br>out in 10.7.<br>recovered f<br>amounts sti<br>presently or<br>contractor a | employer shall be entitled to reco-<br>ages of whatever nature suffered<br>t upon the contractor's default of h<br>1; 10.7.2 and 10.7.3. Such losses<br>rom the contractor or by deducting<br>ill due under this contract or under<br>hereafter existing between the end<br>and for this purpose all these cont-<br>one indivisible whole | or incurred also obligations as set or damages may be g the same from any r any other contract mployer and the |      |
| Fixed:<br>related:   | Value related:  | Time   | Item |
| A11.0 LIAB   | BILITY INSURANCES   |  |      |
| Clause 11.   | 0   |  |      |
|  | Value related:  | Time   | Item |
| A12.0 EFFE   | ECTING INSURANCES   |  |      |
| Clause 12.   | 0   |  |      |
| Fixed:   | Value related:  | Time   | Item |
| A13.0 No cl  |   |  |      |
| 14.2, the er<br>the contract<br>of security t<br>value certifi   | d the contractor fail to furnish the simployer, in his sole discretion and tor, is entitled to change the control of that of a ten per cent (10%) payed in the payment certificate (exclude) 14.7 shall be applicable   | without notification to<br>actor's selected form<br>ment reduction of the                                      |      |
| Fixed:   | Value related:  | Time   | Item |
| EXECUTIO   |   |  |      |
|  | ntractor possession of the site wit contractor complying with the terr  |  |      |
|  | Value related:  | Time   | Item |
| A16.0 ACC  | ESS TO THE WORKS  |  |      |
| Clause 16  | .0  |  |      |
|  | Value related:  | Time   | Item |
| relateu:   |   |  |      |
|  |   |  |      |
|  |   |  |      |
|  |   | Carried Forward  |      |
|  | ). 1<br>  - PRELIMINARY AND GENERA  | L  |      |
| Bill No. 1<br>Preliminari  | ies   |  |      |

|                   | Brough  | nt Forward |
|-------------------|---|------------|
| 3 <b>A17.0</b>    | CONTRACT INSTRUCTIONS   |            |
| Clause            | 17.0  |            |
|                   | e 17.1.11 is amended by deleting the words "and tment of nominated and selected subcontractors"   | the        |
|                   | Value related: Tim<br>:   | e Item     |
| 4 A18.0           | SETTING OUT OF THE WORKS  |            |
| Clause            | 18.0  |            |
|                   | Value related: Time   | e Item     |
| 5 <b>A19.0</b>    | ASSIGNMENT  |            |
| Clause            | 19.0  |            |
|                   | Value related: Time   | e Item     |
| 6 <b>A20.0</b>    | NOMINATED SUBCONTRACTORS  |            |
| Clause            | e 20.0  |            |
| clause<br>attenda | 20.1.3 is amended by replacing it with the followi<br>Note: See item B9.1 hereinafter for adjustment of<br>ance on nominated subcontractors executing work<br>er provisional sums | ıf         |
|                   | Value related: Time: Time   | e Item     |
| 7 <b>A21.0</b>    | SELECTED SUBCONTRACTORS   |            |
| Clause            | 21.0  |            |
| Clause            | e 21 is amended by replacing it with:   |            |
| No cla            | use   |            |
| Fixed:_related    | Value related: Time   | e Item     |
| 8 <b>A22.0</b>    | EMPLOYER'S DIRECT CONTRACTORS   |            |
| Clause            | 22.0  |            |
|                   | Value related: Time   | e Item     |
|                   | CONTRACTOR'S DOMESTIC SUBCONTRACTO  | DRS        |
| C                 | 00.0  |            |
| Clause            |   |            |
|                   | Value related: Time<br>:  | e Item     |
|                   |   |            |
|                   | Carrie  | d Forward  |
| Sectio            | n No. 1   |            |
| SECTI<br>Bill No  | ON 1 - PRELIMINARY AND GENERAL<br>. 1   |            |
|                   | inaries   |            |

|    | Brought Forward  |      |
|----|--|------|
|    | COMPLETION   |      |
| 20 | A24.0 PRACTICAL COMPLETION                                       |      |
|    | Clause 24.0  |      |
|    | Fixed: Value related: Time                                       | Item |
|    | related:   | Kom  |
| 21 | A25.0 WORKS COMPLETION   |      |
|    | Clause 25.0  |      |
|    | Fixed: Value related: Time related:                              | Item |
| 22 | A26.0 FINAL COMPLETION   |      |
|    | Clause 26.0  |      |
|    | Clause 26.1.2 is amended by inserting "#" next to 26.1.2         |      |
|    | Fixed:Time   | Item |
|    | related:   | item |
| 23 | A27.0 LATENT DEFECTS LIABILITY PERIOD                            |      |
|    | Clause 27.0  |      |
|    | Fixed:Time   | Item |
|    | related:   |      |
| 24 | A28.0 SECTIONAL COMPLETION                                       |      |
|    | Clause 28.0  |      |
|    | Fixed: Value related: Time                                       | Item |
|    | related:   |      |
| 25 | A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION                  |      |
|    | Clause 29.0  |      |
|    | Clause 29.2.5 is amended by replacing it with:                   |      |
|    |  |      |
|    | No clause  |      |
|    | Fixed: Value related: Time related:                              | Item |
|    | A30.0 PENALTY FOR NON-COMPLETION                                 |      |
|    | Clause 30.0  |      |
|    |  | ltom |
|    | Fixed: Value related: Time related:                              | Item |
|    | PAYMENT  |      |
|    | Payment shall be subject to the employer giving the contractor a |      |
|    | tax invoice for the amount due                                   |      |
|    | Fixed: Value related: Time                                       | Item |
|    | related:   |      |
|    | Carried Forward  |      |
|    | Section No. 1<br>SECTION 1 - PRELIMINARY AND GENERAL             |      |
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|   | Brought Forward   |      |
|---|---|------|
| 7 | A32.0 ADJUSTMENT TO THE CONTRACT VALUE  |      |
|   | Clause 32.0   |      |
| ŀ | Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: due to no fault of the contractor  |      |
|   | Fixed: Value related: Time related:   | Item |
| 8 | A33.0 RECOVERY OF EXPENSE AND LOSS  |      |
|   | Clause 33.0   |      |
|   | Fixed: Value related: Time related:   | Item |
| 9 | A34.0 FINAL ACCOUNT AND FINAL PAYMENT   |      |
|   | Clause 34.0   |      |
| 1 | Clause 34.1 is amended by removing "#" next to 34.1   |      |
|   | Clause 34.2 is amended by inserting "#" next to 34.2  |      |
|   | Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"           |      |
| , | Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due" |      |
|   | Fixed: Value related: Time related:   | Item |
|   | A35.0 PAYMENT TO OTHER PARTIES  |      |
|   | Clause 35.0   |      |
|   | Fixed: Value related: Time  | Item |
|   | related:  | nom  |
|   | CANCELLATION  |      |
|   | A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S<br>DEFAULT  |      |
| 1 | Clause 36.0   |      |
|   | Clause 36.1 is amended by the addition of the following clauses:  |      |
|   | 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract  |      |
| ŀ | 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa  |      |
|   | 36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract   |      |
|   | Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"   |      |
| ; | Carried Forward Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1  |      |
| 1 | Preliminaries   |      |

| Brought Forward  |      |  |
|--|------|--|
| 36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever   |      |  |
| Clause 37.0 is amended by the addition of the following clause: 37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever |      |  |
| Fixed: Value related: Time related:  | Item |  |
| 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever   |      |  |
| Fixed: Value related: Time related:  | Item |  |
| A39.0 CANCELLATION - CESSATION OF THE WORKS  Clause 39.0  Clause 39.3.5 is amended by the addition of the following at the end of the sentence: within one hundred and twenty (120) working days of completion of such a report  |      |  |
| Fixed: Value related: Time related:  | Item |  |
| DISPUTE  |      |  |
| A40.0 DISPUTE SETTLEMENT  Clause 40.0  |      |  |
| Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"  |      |  |
| Clause 40.6 is amended by removing the reference to:   |      |  |
| No clause  |      |  |
| Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:   |      |  |
| Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs   |      |  |
| Fixed: Value related: Time related:  | Item |  |
| Carried Forward  |      |  |
| Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1   |      |  |
| Preliminaries  |      |  |

|    | Brought Forward  |      |
|----|--|------|
| 1  | SUBSTITUTE PROVISIONS  |      |
| 34 | A41.0 STATE CLAUSES  |      |
|    | Clause 41.0  |      |
|    | Fixed: Value related: Time related:  | Item |
| 9  | CONTRACT VARIABLES   |      |
| 35 | A42.0 THE SCHEDULE (DPW-04EC)  |      |
|    | Clause 42.0 Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract |      |
|    | Fixed: Value related: Time related:  | Item |
| 3  | SECTION B: JBCC PRELIMINARIES  |      |
| ا  | B1.0 DEFINITIONS AND INTERPRETATION  |      |
| 36 | B1.1 Definitions and interpretation  |      |
|    | See also clause A1.0 of Section A for additional and/or amended  |      |
|    | definitions which shall apply equally to this Section  |      |
|    | Fixed: Value related: Time   | Item |
|    | related:   |      |
| -  | B2.0 DOCUMENTS   |      |
| 37 | B2.1 Checking of documents   |      |
|    | Fixed: Value related: Time related:  | Item |
|    | B2.2 Provisional bills of quantities   |      |
|    |  |      |
|    | Fixed: Value related: Time related:  | Item |
| 39 | B2.3 Availability of construction documentation  |      |
|    | Fixed:Time   | Item |
|    | related:   | itom |
| 40 | B2.4 Interests of agents   |      |
|    | Fixed:Time   | Item |
| ı  | related:   |      |
| 41 | B2.5 Priced documents  |      |
|    | Fixed:Time related:Time related:   | Item |
|    |  |      |
|    | B2.6 Tender submission   |      |
| •  | Clause 2.6 is amended by replacing "JBCC Form of Tender" with  "Form of Offer and Acceptance DPW-07(EC)"     |      |
|    | Fixed: Value related: Time related:  | Item |
|    | Carried Forward  |      |
| ;  | Section No. 1  |      |
|    | SECTION 1 - PRELIMINARY AND GENERAL<br>Bill No. 1  |      |
|    | Preliminaries  |      |

|    | B3.0 THE SITE                                    | Brought Forward |        |
|----|--|-----------------|--------|
|    | B3.1 Defined works area                          |                 |        |
|    |  |                 |        |
|    | Fixed: Value related:<br>related:                | Time            | Item   |
| 44 | B3.2 Geotechnical investigation                  |                 |        |
|    | Fixed: Value related:related:                    | Time            | Item   |
| 45 | B3.3 Inspection of the site                      |                 |        |
|    | Fixed: Value related:related:                    | Time            | Item   |
| 46 | B3.4 Existing premises                           |                 |        |
|    | Fixed:Value related:                             | Time            | Item   |
|    | related:   | 111110          | item   |
| 47 | B3.5 Previous work - dimensional accurac         | ;y              |        |
|    |  |                 |        |
|    | Fixed: Value related:<br>related:                | Time            | Item   |
| 10 |  |                 |        |
|    | B3.6 Previous work - defects                     |                 |        |
|    | Fixed: Value related:                            | Time            | Item   |
|    | related:   |                 |        |
| 19 | B3.7 Services - known                            |                 |        |
|    | Fixed: Value related:                            | Time            | Item   |
|    | related:   |                 |        |
| 50 | B3.8 Services - unknown                          |                 |        |
|    | Fixed: Value related:                            | Time            |        |
|    | related:   | 111110          |        |
| 51 | B3.9 Protection of trees                         |                 | Item   |
|    |  | Ti              | 140.0- |
|    | Fixed: Value related:<br>related:                | ı ime           | Item   |
| 52 | B3.10 Articles of value                          |                 |        |
| JZ |  |                 |        |
|    | Fixed: Value related:<br>related:                | Time            | Item   |
|    |  |                 |        |
| 53 | B3.11 Inspection of adjoining properties         |                 |        |
|    | Fixed: Value related:                            | Time            | Item   |
|    | related:   |                 |        |
|    | B4.0 MANAGEMENT OF CONTRACT                      |                 |        |
| 54 | B4.1 Management of the works                     |                 |        |
|    | Fixed: Value related:                            | Time            | Item   |
|    | related:   |                 |        |
|    |  |                 |        |
|    |  |                 |        |
|    |  | Carried Forward |        |
|    | Section No. 1                                    |                 |        |
|    | SECTION 1 - PRELIMINARY AND GENERA<br>Bill No. 1 | L               |        |
|    | Preliminaries                                    |                 |        |

|    |                                   |                            | Brought Forward |      |
|----|-----------------------------------|----------------------------|-----------------|------|
| 55 | B4.2 Programme for                | the works                  |                 |      |
|    | Fixed:                            | Value related:             | Time            | Item |
|    | related:                          |                            |                 |      |
| 56 | B4.3 Progress meeti               | ngs                        |                 |      |
|    | Fixed:                            | Value related:             | Time            | Item |
|    | related:                          |                            |                 |      |
| 57 | B4.4 Technical meet               | ings                       |                 |      |
|    |                                   | Value related:             | Time            | Item |
|    | related:                          | _                          |                 |      |
| 58 | B4.5 Labour and pla               | nt records                 |                 |      |
|    |                                   | Value related:             | Time            | Item |
|    | related:                          | _                          |                 |      |
|    | B5.0 SAMPLES, SHO<br>INSTRUCTIONS | OP DRAWINGS AND M          | IANUFACTURERS'  |      |
|    | B5.1 Samples of mat               | terials                    |                 |      |
| -  | -                                 |                            | Time            | ltc  |
|    | related:                          | _ Value related:<br>_      | i ime           | Item |
| 60 | B5.2 Workmanship s                | samples                    |                 |      |
|    |                                   | Value related:             | Time            | Item |
|    | related:                          |                            |                 |      |
| 31 | B5.3 Shop drawings                |                            |                 |      |
|    |                                   | _ Value related:           | Time            | Item |
|    | related:                          | _                          |                 |      |
| 62 | B5.4 Compliance wit               | th manufacturers' ins      | tructions       |      |
|    |                                   | _ Value related:           | Time            | Item |
|    | related:                          | _                          |                 |      |
|    | B6.0 TEMPORARY W                  | VORKS AND PLANT            |                 |      |
| 63 | B6.1 Deposits and fe              | ees                        |                 |      |
|    |                                   | Value related:             | Time            | Item |
|    | related:                          | _                          |                 |      |
| 64 | B6.2 Advertising                  |                            |                 |      |
|    |                                   | Value related:             | Time            | Item |
|    | related:                          | _                          |                 |      |
| 65 | B6.3 Advertising                  |                            |                 |      |
|    | Fixed:related:                    | Value related:             | Time            | Item |
| 36 |                                   | -<br>nt, sheds and offices |                 |      |
| JU |                                   | •                          |                 |      |
|    | Fixed:related:                    | Value related:             | Time            | Item |
|    |                                   |                            | Carried Forward |      |
|    | Section No. 1                     | MINIARY AND OFFICE         |                 |      |
|    | SECTION 1 - PRELIN<br>Bill No. 1  | MINARY AND GENERA          | AL.             |      |
|    | Preliminaries                     |                            |                 |      |

| 67 | B6.5 Main notice box             | ard                         | Brought Forward |      |
|----|----------------------------------|-----------------------------|-----------------|------|
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
| 68 | B6.6 Subcontractors              | s' notice board             |                 |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
|    | B7.0 TEMPORARY S                 | SERVICES .                  |                 |      |
| 69 | B7.1 Location                    |                             |                 |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
| 70 | B7.2 Water                       |                             |                 |      |
|    | Fixed:related:                   | _ Value related:<br>_       | Time            | Item |
| 71 | B7.3 Electricity                 |                             |                 |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
| 72 | B7.4 Telecommunic                | ation facilities            |                 |      |
|    | Fixed:                           | _ Value related:            | Time            | Item |
| 73 | B7.5 Ablution faciliti           | ies                         |                 |      |
|    | Fixed:                           | Value related:              | Time            | Item |
|    | B8.0 PRIME COST A                | _                           |                 |      |
| 74 | B8.1 Responsibility              | for prime cost amounts      |                 |      |
|    | Fixed:related:                   | Value related:              | Time            | Item |
|    |                                  | ON N/S SUBCONTRACTO         | <u>ORS</u>      |      |
| 75 | B9.1 General attenda             | ance                        |                 |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
|    | B9.2 Special attenda             |                             |                 |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
| 77 | B9.3 Commissioning               | g - fuel, water and electri | city            |      |
|    | Fixed:related:                   | _ Value related:            | Time            | Item |
|    | B10.0 FINANCIAL AS               |                             |                 |      |
| 78 | B10.1 Statutory taxe             | es, duties and levies       |                 |      |
|    | Fixed:related:                   | Value related:              | Time            | Item |
|    | Section No. 1                    |                             | Carried Forward |      |
|    | SECTION 1 - PRELIM<br>Bill No. 1 | MINARY AND GENERAL          |                 |      |
|    | Preliminaries                    |                             |                 |      |

| 70 | D40 2 Dovement for          |                         | Brought Forward      |      |  |
|----|-----------------------------|-------------------------|----------------------|------|--|
| 19 | B10.2 Payment for           |                         |                      |      |  |
|    |                             | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 30 | B10.3 Adjustment            | of preliminaries        |                      |      |  |
|    | Fixed:                      | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 31 | B10.4 Payment ce            | rtificate cash flow     |                      |      |  |
|    | Fixed:                      | Value related:          | Time                 | Item |  |
|    | related:                    |                         | Time                 | псш  |  |
|    | B11.0 GENERAL               |                         |                      |      |  |
|    |                             |                         |                      |      |  |
| 32 | B11.1 Protection of         | of the works            |                      |      |  |
|    |                             | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
|    | B11.2 Protection / works    | isolation of existing / | sectionally occupied |      |  |
|    |                             |                         |                      |      |  |
|    | Fixed:<br>related:          | Value related:          | Time                 | Item |  |
|    |                             |                         |                      |      |  |
| 84 | B11.3 Security of           | the works               |                      |      |  |
|    |                             | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 35 | B11.4 Notice befo           | re covering work        |                      |      |  |
|    | Fixed:                      | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 36 | B11.5 Disturbance           | e                       |                      |      |  |
|    | Fixed:                      | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      | nom  |  |
| 87 | B11.6 Environmer            | ntal disturbance        |                      |      |  |
|    |                             |                         | <del>_</del> ;       |      |  |
|    | related:                    | Value related:          | I ime                | Item |  |
| 00 | B11.7 Works clear           | ning and clearing       |                      |      |  |
| 00 |                             |                         |                      |      |  |
|    | Fixed:<br>related:          | Value related:          | Time                 | Item |  |
|    | related                     |                         |                      |      |  |
| 89 | B11.8 Vermin                |                         |                      |      |  |
|    |                             | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 90 | B11.9 Overhand w            | vork                    |                      |      |  |
|    | Fixed:                      | Value related:          | Time                 | Item |  |
|    | related:                    |                         |                      |      |  |
| 91 | B11.10 Instruction          | n manuals and guaran    | tees                 |      |  |
|    |                             | _                       |                      | l4   |  |
|    | related:                    | Value related:          | i ime                | Item |  |
|    |                             |                         | Corried Farmer-1     |      |  |
|    | Section No. 1               |                         | Carried Forward      |      |  |
|    |                             | LIMINARY AND GENER      | RAL                  |      |  |
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| 00 | Dad dd An built info   |                         | Brought Forward                                 |      |
|----|--|-------------------------|---|------|
| 92 | B11.11 As built infor  | mation                  |   |      |
|    | Fixed:related:   |                         | Time  | Item |
|    |  | _                       |   |      |
| 93 | B11.12 Tenant instal   | lations                 |   |      |
|    | Fixed:   |                         | Time  | Item |
|    | related:   | _                       |   |      |
|    | B12.0 SCHEDULE O   | F VARIABLES             |   |      |
| 94 | B12.1 Schedule of va   | ariables                |   |      |
|    | Fixed:   | Value related:          | Time  | Item |
|    | related:   |                         |   |      |
|    | SECTION C: SPECIF  | IC PRELIMINARIES        | <u>i</u>  |      |
|    | Saction Coontains or   | agaifia proliminary ita | ems which apply to this                         |      |
|    | contract except where  |                         |   |      |
|    |  |                         |   |      |
| 95 | C1.0 CONTRACT DR   | AWINGS                  |   |      |
|    |  |                         | ichever is not applicable                       |      |
|    | depending on whethe<br>or lump sum documer   |                         | ed on a bills of quantities                     |      |
|    |  |                         | cuments do not comprise                         |      |
|    | _  |                         | for tendering purposes                          |      |
|    |  |                         | enable the tenderer to                          |      |
|    | manner in which they   |                         | it of the works and the                         |      |
|    |  |                         |   |      |
|    | * A full set of drawings   |                         |   |      |
|    | indicating the full scop<br>acquaint himself with  |                         | ible the tenderer to<br>nt of the works and the |      |
|    | manner in which they   |                         |   |      |
|    |  |                         | early understood by the                         |      |
|    | tenderer he shall, before<br>in writing from the pring<br>the pring the pring<br>tendered the pring<br>tendered the pring<br>tendered the pring<br>tendered the shall, before<br>the pring<br>tendered the shall, before<br>the pring<br>the pri |                         | nder, obtain clarification                      |      |
|    |  |                         | _   |      |
|    | Fixed:related:   | _ Value related:        | Time  | Item |
| 26 | C2 A CENEDAL DDE   | AMDI EC                 |   |      |
| 90 | C2.0 GENERAL PRE   | AMBLES                  |   |      |
|    | The document "Speci (PW371)" is obtainable   |                         | and Methods to be used                          |      |
|    | (http://www.publicwor  | ks.gov.za/ under "Co    | onsultants Guidelines"),                        |      |
|    |  |                         | oills of quantities / lump                      |      |
|    | to be done and mater   |                         |   |      |
|    | Fixed:   | Value related:          | Time  | Item |
|    | related:   | _                       |   |      |
| 97 | C3.0 TRADE NAMES   | 1                       |   |      |
|    | Wherever a trade nan   | ne for any product ha   | as been described in the                        |      |
|    | bills of quantities / lum  | np sum document, th     | ne tenderer's attention is                      |      |
|    | drawn to the fact that used subject to the wi  |                         |   |      |
|    | obtained prior to the o  |                         |   |      |
|    |  |                         |   |      |
|    |  |                         | Carried Forward                                 |      |
|    | Section No. 1  |                         | Carried Forward                                 |      |
|    | SECTION 1 - PRELIM   | IINARY AND GENE         | RAL   |      |
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|    | If prior written approval for an alternative product is not obtained,   |      |
|    | the product described shall be deemed to have been tendered for   |      |
|    | Fixed: Value related: Time  | Item |
|    | related:  |      |
| 98 | C4.0 IMPORTED MATERIALS AND EQUIPMENT   |      |
|    | Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)                             |      |
|    | Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)   |      |
|    | Fixed: Value related: Time related:   | Item |
| 99 | C5.0 VIEWING THE SITE IN SECURITY AREAS   |      |
|    | The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes  |      |
|    | Fixed: Value related: Time related:   | Item |
|    | C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS  |      |
|    | As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account  |      |
|    | Fixed: Value related: Time related:   | Item |
| 01 | C7.0 ENTRANCE PERMITS TO SECURITY AREAS   |      |
| ,  | As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer |      |
|    | Fixed: Value related: Time related:   | Item |
| 02 | C8.0 SECURITY CHECK OF PERSONNEL  |      |
|    | The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified  |      |
|    | In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works                                   |      |
|    | Fixed: Value related: Time related:   | Item |
|    | Carried Forward Section No. 1   |      |
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| C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS   |      |  |
| n terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of chotographs except when authorized thereto by or on behalf of the Minister  |      |  |
| The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959   |      |  |
| Fixed: Value related: Time related:   | Item |  |
| C10.1 AWARENESS CHAMPION  |      |  |
| Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification  |      |  |
| Fixed: Value related: Time related:   | Item |  |
| C10.2 AWARENESS WORKSHOPS   |      |  |
| Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification |      |  |
| Fixed: Value related: Time related:   | Item |  |
| C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.  Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification  |      |  |
| Fixed: Value related: Time related:   | Item |  |
| C10.4 ACCESS TO CONDOMS   |      |  |
| Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification   |      |  |
| Fixed: Value related: Time related:   | Item |  |
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| C10.5 MONITORING   |      |  |
| Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all eports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close but, all in accordance with the HIV/AIDS Specification  |      |  |
| Fixed: Value related: Time elated:   | Item |  |
| C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT   |      |  |
| The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)  |      |  |
| It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document  |      |  |
| The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment |      |  |
| Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained  |      |  |
| Fixed: Value related: Time related:  | Item |  |
| C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)  |      |  |
| The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work  |      |  |
| Fixed: Value related: Time related:  | Item |  |
| C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)   |      |  |
| The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5   |      |  |
| Fixed: Value related: Time related:  | Item |  |
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| 11.3 REGISTRATION WITH THE COMPENSATION FUND Construction Regulation 5.3 f)  |      |  |   |
| the Contractor shall provide proof of his registration and good tanding with the Compensation Fund or a licensed compensation asurer prior to the commencement of work   |      |  |   |
| ixed: Time<br>elated: Time   | Item |  |   |
| :11.4 HEALTH AND SAFETY FILE ( Construction Regulation .7)   |      |  |   |
| The Contractor shall ensure that a health and safety file, which hall include all documentation required in terms of the health and afety specification, the Act and the Construction Regulations, is pened and kept on site and made available to the Principal Agent r Inspector upon request. Upon completion of the works, the contractor shall hand over a consolidated health and safety file to ne principal agent  |      |  |   |
| ixed: Value related: Time  | Item |  |   |
| :11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY DFFICER) (Construction Regulation 6)  |      |  |   |
| The Contractor shall appoint a full-time competent employee in virting as the construction supervisor, with the duty of supervising ne construction work. The Contractor shall appoint a full-time or art-time construction safety officer in writing to assist in the ontrol of all safety related aspects on the site. Such appointments re required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation  |      |  |   |
| ixed: Time<br>elated: Time   | Item |  |   |
| :11.6 RISK ASSESSMENT AND SAFETY POLICY<br>Construction Regulation 7)  |      |  |   |
| defore commencing work the Contractor shall cause a risk seessment to be performed by a competent person appointed in virting and the risk assessment shall form part of the health and afety plan. A copy of the risk assessment shall be available on ite at all times for inspection. The Contractor shall at all time carry ut the works in a manner to avoid the risk of bodily harm to ersons or risk of damage to any property. He shall take all recautions regarding training of employees in any hazards and ne related work procedures, health and safety induction training of mployees, visitors or any other persons entering the site and rovide personal protective equipment to all employees and isitors to site which are necessary and adequate to eliminate any onditions which contribute to the risk of injury to persons or amage to property in terms of Regulation 7 |      |  |   |
| ixed: Value related: Time  | Item |  |   |
| :11.7 SIGNIFICANT HAZARDA IDENTIFICATION RISK<br>SSESSMENT PREPARED BY THE DESIGN CONSULTANTS  |      |  |   |
| The contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant   |      |  |   |
| azards and risks identified and assessed by the design onsultants  | 1    |  | i |
| , ,  | Item |  |   |

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| C11.8 ADDITIONAL FINANCIAL PROVISION   |      |  |
| The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided   |      |  |
| Fixed: Value related: Time related:  | Item |  |
| C11.9 FALL PROTECTION PLAN (Construction Regulation 8)   |      |  |
| The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file F |      |  |
| ixed: Value related: Time related:   | Item |  |
| C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS<br>(Construction Regulation 8.2(b))  |      |  |
| The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file   |      |  |
| Fixed: Value related: Time related:  | Item |  |
| (Construction Regulation 21)  The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file  |      |  |
| Fixed: Value related: Time related:  | Item |  |
| C11.12 TRAINING (Construction Regulation 8 (c))  |      |  |
| The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall from part of the health and safety plan  |      |  |
| Fixed: Value related: Time related:  | Item |  |
| C11.13 DEMOLITION WORK (Construction Regulation 12)  |      |  |
| The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.  |      |  |
| Fixed: Value related: Time related:  | Item |  |
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| Carried Forward Section No. 1  |      |  |
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|  | Вго   | ught Forward                     |      |  |  |
|--|---|----------------------------------|------|--|--|
| C11.14 REMOV<br>(Asbestos Regi                                 | AL AND DISPOSAL OF ASBESTOS ulation)  | MATERIAL                         |      |  |  |
| with the Department of L NOTIFICATION PROTECTIVE E AND STORAGE | ntractor shall appoint a contractor that<br>abour as an AIA. The contractor mus<br>OF ASBESTOS PROCESSINGPER<br>EQUIPMENTPACKAGING AND TRAI<br>TO DISPOSAL SITEDEMOLITION<br>LING AND INFORMATION | st allow for;<br>SONAL<br>NSPORT |      |  |  |
| Fixed:   | Value related:  | Time                             | Item |  |  |
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### SECTION NO. 2 BILL NO. 1

# OCCUPATIONAL HEALTH & SAFETY AND ENVIRONMENTAL MANAGEMENT

Failure, by the Tenderer, to price the items indicated below individually or per item will result in the Tender being deemed non-responsive. The legal requirements contemplated in the Construction Regulations as stated below:

(CR) 5(1)(q) "A Client must ensure that potential principal contractors submitting tenders, have made adequate provision for the cost of health and safety measures"

CR 5(1)(h) "A client must ensure that principal contractor to be appointed has the necessary competencies and resources to carry out the construction work safely"

Shall apply and will be used to motivate the disqualification of the Tender. The contractor's attention is further drawn to Section 41 of the Occupational Health and Safety Act No. 85 Of 1993: This Act not affected by agreements

Subject to the provisions of sections 10 (4) and 37 (2), a provision of this Act or a condition specified in any notice or direction issued there under or subject to which exemption was granted to any person under section 40, shall not be affected by any condition of any agreement, whether such agreement was entered into before or after the commencement of this Act or before or after the imposition of any such condition, as the case may be.

#### Note to Principal Contractor

Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &Safety specifications.

After pricing of the health and safety bill of quantities, the Principal Contractor must sign the Certificate of Acquaintance as evidence that he is au fait regarding the contents, obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &Safety specifications. Failure, by the Tenderer, to sign the Certificate of Acquaintance may result in the Tender being deemed non-responsive.

- Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative
- 2 Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]
- 3 Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]
- 4 Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.
- 5 Provision of full time Health and Safety Officer for the entire construction period.

**Carried Forward** 

Section No. 2
SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT
Bill No. 1
OHS and Environmental Management

1

1

Item

Item

Months

Months

Months

3

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| Brought Forward  Provide, supply and maintenance for each worker the following SANS approved personal protective equipment &   |      |    |  |
|--|------|----|--|
| clothing as per the site-specific risk assessments:  |      |    |  |
| Hard hats (high density polyethylene & 6-point lining)   | No   | 20 |  |
| Vests  | No   | 10 |  |
| Safety boots / shoes (steel-toe)   | No   | 10 |  |
| Safety gloves  | No   | 10 |  |
| Ear plugs/ muffs   | No   | 10 |  |
| Dust mask(at least FF2 type)   | No   | 5  |  |
| Respirators  | No   | 1  |  |
| Cloth Masks  | No   | 1  |  |
| Face shields   | No   | 1  |  |
| FFP1 surgical masks  | No   | 25 |  |
| Safety goggles   | No   | 5  |  |
| Temporary warning signs and symbols  | No   | 5  |  |
| Allow for pre-employment medical examinations  | Item | 1  |  |
| Allow for exit medical examinations  | Item | 1  |  |
| SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc | Item | 1  |  |
|  |      |    |  |
| Carried Forward to Summary of Section No. 2  |      |    |  |
| SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT<br>Bill No. 1<br>OHS and Environmental Management  |      |    |  |

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| BILL NO. 2   |        |   |  |
|  |        |   |  |
| HEALTH & SAFETY EDUCATION AND ENVIRONMENTAL MANAGEMENT               |        |   |  |
| Allow for all COVID-19 awareness training                            | Months | 3 |  |
| COVID-19 HEALTH AND SAFETY WORK PRACTICES                            |        |   |  |
| Symptom screening of all site visitors upon arrival                  | Months | 3 |  |
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| Carried Forward to Summary of Section No. 2                          | 2      |   |  |
| Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT            |        |   |  |
| Bill No. 2<br>Health & Safety Education and Environmental Management |        |   |  |
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## **SECTION NO. 3 BILL NO. 2 ALTERATIONS** View site Before submitting his tender the tenderer 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 salvageable from the alterations. 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 Explosives No explosives whatsoever may be used for alteration purposes unless otherwise stated General 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 tenants in the building and 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 Fttings, frames, linings, which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels,, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, 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 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) REMOVAL OF EXISTING WORK Taking out and removing piping, sanitary fittings, including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere) 50mm Waste pipe. 3 m Remove VIP 200 Pit pedestal and prepare surface to receive new 3 No VIP 450 pedestal (VIP 450 pedestal elsewhere). NEW SANITARY FITTINGS Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins. Product and colour to Principal Agent's approval: 3 VIP 450 Pit pedestal complete with integral flap four times plugged Nο 3 to floor with and including 6 x 75mm masonry anchors **Carried Forward** Section No. 3 **SECTION 3 - DEMOLITIONS & ALTERATIONS**

Bill No. 2
Alterations

|    | Brought Forward   |      |    |             |             |
|----|---|------|----|-------------|-------------|
|    | Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:   |      |    |             |             |
|    | SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet. | No   | 2  |             |             |
| 4  | Remove and replace Urinal with new  | No   | 5  |             |             |
|    | NEW SANITARY PLUMBING   |      |    |             |             |
|    | PVC waste or vent pipes and fittings:   |      |    |             |             |
| 5  | 50mm Waste pipe   | No   | 3  |             |             |
|    | Extra for:  |      |    |             |             |
| 6  | 50mm Bend.  | No   | 2  |             |             |
| 7  | 50mm Access bend.   | No   | 1  |             |             |
|    | NEW BATHROOM FITTINGS   |      |    |             |             |
|    | Satin Grey Plastics or equal approved   |      |    |             |             |
|    | "Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.   | No   | 8  |             |             |
|    | BOLTS:  |      |    |             |             |
| 8  | 50mm Alu/Metal holder bat to hold vent pipes against brick wall   | No   | 57 |             |             |
|    | ALLOWANCE FOR TEMPORARY TOILETS   |      |    |             |             |
| 9  | Allow for temporary toilets for use during construction   | Item | 1  | R150 000,00 | R150 000,00 |
|    | METALWAORK  |      |    |             |             |
|    | STEEL BALUSTRADING  |      |    |             |             |
|    | GALVANISED STEEL BALUSTRADING   |      |    |             |             |
|    | Welded balustrading to walkways   |      |    |             |             |
|    | Allow for Raking balustrading 1000mm high, complete with 50mm diameter handrail, fixed to detail  | m    | 15 |             |             |
|    | ON METAL SURFACES   |      |    |             |             |
|    | One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel  |      |    |             |             |
| 11 | To steel balustrades (both sides measured)  | m²   | 70 |             |             |
|    |   |      |    |             |             |
|    | Carried Forward to Summary of Section No. 3   |      |    |             |             |
|    | Section No. 3   |      |    |             |             |
|    | SECTION 3 - DEMOLITIONS & ALTERATIONS<br>Bill No. 2<br>Alterations  |      |    |             |             |

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## SECTION NO. 4 BILL NO. 1 **EARTHWORKS** SUPPLEMENTARY PREAMBLES General The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. Nature of ground The required bulk earthworks and levelling have been measured under Section 2 (Bulk Earthworks) of these Bills of Quantities and would be complete at the time these foundation works are executed. The nature of the ground is thus compacted fill (as per latest Engineer's drawing) and where foundation excavations are deeper the nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock". Subterranean water No subterranean water is expected Carting away of excavated material Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site. **Filling** Notwithstanding the reference to prescribed multiple handling in clause 2 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material. Testing Prices for filling are to include for all necessary density tests in accordance with SABS 1200D and as prescribed by the Engineer and/or Principal Agent. SITE CLEARANCE Site clearance 1 Stripping average 170mm thick layer of top soil and stockpiling on m2 50 **EXCAVATION, FILLING EXCAVATIONS** Excavation in compacted earth not exceeding 2m deep 2 Trenches m3 14 **Carried Forward** Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1

**Building works** 

|   | Brought Forward  |      |    |
|---|--|------|----|
|   | Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density  |      |    |
|   | Exceeding 1m and not exceeding 2m deep for building retaining walls,   | m3   | 22 |
| 4 | Extra over for excavation in soft rock   | m3   | 2  |
| 5 | Extra over for excavation in hard rock   | m3   | 1  |
|   | Extra over all excavations for carting away  |      |    |
|   | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor  | m3   | 8  |
|   | Risk of collapse of excavations  |      |    |
| 7 | Sides of trench and hole excavations not exceeding 1,5m deep   | m2   | 48 |
|   | Keeping excavations free of water  |      |    |
|   | Keeping excavations free of all water other than subterranean water  | Item | 1  |
|   | De-watering of seepage water and water from other subterranean sources in excavations  |      |    |
|   | Provide pump with including maintenance and removal as per<br>Principal Agents Approval  | No   | 2  |
|   | Compaction of ground surfaces  |      |    |
|   | Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density  FILLING | m2   | 26 |
|   |  |      |    |
|   | Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:  |      |    |
| 1 | Backfilling to trenches  | m3   | 8  |
|   | Selected earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage approximately 5km from the perimeter of the excavations or stock piles, compacted to 95% Mod AASHTO density              |      |    |
| 2 | Backfilling behind retaining walls   | m3   | 22 |
| 3 | Over site to make up levels  | m3   | 9  |
|   | Earth filling supplied by the contractor compacted to 90% Mod<br>AASHTO density  |      |    |
| 4 | Landscape mounds, berms,   | m3   | 9  |
|   | Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO   |      |    |
| 5 | Over site to make up levels  | m3   | 7  |
|   | Prescribed density tests on filling  |      |    |
| 6 | Modified AASHTO Density test   | No   | 8  |
|   | Carried Forward  |      |    |
|   | Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works  |      |    |

|   | Brought Forward   |    |    |  |   |
|---|---|----|----|--|---|
|   | SUBSOIL DRAINAGE  |    |    |  |   |
|   | Slotted PVC-U flexible drainage pipes   |    |    |  |   |
|   | Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:   |    |    |  |   |
| 7 | 20mm Stone.   | m3 | 2  |  |   |
|   | Membrane  |    |    |  |   |
|   | Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.  | m2 | 40 |  |   |
|   | 110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.  |    |    |  |   |
| Э | 110mm uPVC pipe.  | m  | 52 |  |   |
|   | Extra over fittings   |    |    |  |   |
| ) | 110mm Tee.  | No | 11 |  |   |
| 1 | 110mm Y junction.   | No | 11 |  |   |
|   | SOIL POISONING  |    |    |  |   |
|   | SOIL POISONING  |    |    |  |   |
|   | Soil insecticide in accordance with SANS 5859   | _  |    |  |   |
|   | Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming   | m2 | 98 |  |   |
| 3 | To bottoms and sides of trenches  | m2 | 48 |  |   |
|   | CONCRETE, FORMWORK AND REINFORCEMENT  |    |    |  |   |
|   | SUPPLEMENTARY PREAMBLES   |    |    |  |   |
|   | General   |    |    |  |   |
|   | The Concrete works shall be in accordance with the Engineer's specifications as per Annexures "Part D.9 - Concrete Specifications" and "Part D.10 - Industrial Floor Specifications" appended hereto. The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.                              |    |    |  |   |
|   | The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. |    |    |  |   |
|   | Components cast against excavated surfaces have not been measured or described separately and the Contractor is to ensure adequate allowance for casting against exacated surfaces are made within the relevant items.  |    |    |  |   |
|   | Concrete  |    |    |  |   |
|   | All exposed sharp corners to be chamfered 25 x 25mm unless otherwise indicated  Carried Forward   |    |    |  | _ |
|   | Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works   |    |    |  |   |

| Brought Forward  |    |   |  |
|--|----|---|--|
| 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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured provisionally and separately)  Descriptions of form work 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 |    |   |  |
| <u>Finishing</u>   |    |   |  |
| Finishing the surfaces of surface beds and slabs level and smooth to receive screed, grano or any other finish are deemed to be included in the rate for the surface bed or slab.  Mesh reinforcement  |    |   |  |
| Mesh reinforcement is measured net, contractor to take condideration of lapping  |    |   |  |
| UNREINFORCED CONCRETE CAST ON/IN FORMWORK  |    |   |  |
| 15MPa/20mm concrete in:  |    |   |  |
| Surface blinding under footings and bases  | m3 | 1 |  |
| REINFORCED CONCRETE  |    |   |  |
| 25MPa/19mm concrete  |    |   |  |
| Stripfootings  | m3 | 8 |  |
| TEST CUBES   |    |   |  |
| Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)   | No | 2 |  |
| CONCRETE SUNDRIES  |    |   |  |
| Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's quidelines   |    |   |  |
| Surface beds and ramps   | m2 | 5 |  |
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| Carried Forward  |    |   |  |
| Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1   |    |   |  |

| Brought Forward   |    |    |  |
|---|----|----|--|
| ROUGH FORMWORK (DEGREE OF ACCURACY II)  |    |    |  |
| Rough formwork to sides   |    |    |  |
| Strip footing and ramps (Provisional)   | m2 | 4  |  |
| MOVEMENT JOINTS   |    |    |  |
| Isolation joints formed of 20 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former  |    |    |  |
| Between concrete surface bed and/or raft foundation and brick walls.  | m  | 48 |  |
| Saw-cut joints  |    |    |  |
| 3 x 50mm deep Saw-cut joints in top of concrete filled with an approved semi-rigid sealer   | m  | 25 |  |
| REINFORCEMENT   |    |    |  |
| Provision for high tensile steel reinforcement  |    |    |  |
| Varying diameters in bases and structural concrete work   | t  | 1  |  |
| MASONRY   |    |    |  |
| SUPPLEMENTARY PREAMBLES   |    |    |  |
| BRICKWORK   |    |    |  |
| General   |    |    |  |
| The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. |    |    |  |
| Sizes in descriptions   |    |    |  |
| Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  |    |    |  |
| Face bricks   |    |    |  |
| Bricks shall be ordered timeously to obtain uniformity in size and  |    |    |  |
| Pointing  |    |    |  |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing   |    |    |  |
|   |    |    |  |
|   |    |    |  |
| Carried Forward   |    |    |  |
| Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1  |    |    |  |

| Brought Forward   |    |     |  |
|---|----|-----|--|
| BRICKWORK   |    |     |  |
| FOUNDATIONS (PROVISIONAL)   |    |     |  |
| Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all purpose cement):  |    |     |  |
| One brick walls   | m2 | 8   |  |
| SUPERSTRUCTURE  |    |     |  |
| Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement).  Open perp. @ 1540 centres parallel with drainage pipe  |    |     |  |
| One brick walls   | m2 | 57  |  |
| FACE BRICKWORK  |    |     |  |
| Rustgold FBS/Qunu Travertine clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement) |    |     |  |
| One brickwall faced on both sides.  | m2 | 121 |  |
| Brick-on-edge header course copings of "Rustgold FBS/Qunu<br>Travertine" or equal approved face bricks pointed with recessed<br>joints on all exposed faces, 220mm wide sill set sloping and<br>slightly projecting:  |    |     |  |
| 230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.   | m  | 48  |  |
| BRICKWORK SUNDRIES  |    |     |  |
| Brickwork reinforcement   |    |     |  |
| 150mm Wide reinforcement built in horizontally every second course  | m  | 355 |  |
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| Carried to Final Summary  |    |     |  |
| Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL)   |    |     |  |
| Bill No. 1<br>Building works  |    |     |  |

| BILL NO. 1  |    |     |  |
|---|----|-----|--|
| STORMWATER  |    |     |  |
| SUPPLEMENTARY PREAMBLES   |    |     |  |
| General   |    |     |  |
| These quantities are measured in accordance with SANS 1200 Specifications.  |    |     |  |
| The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.  |    |     |  |
| The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must mmediately notify the Quantity Surveyor if discrepancies are ound between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. |    |     |  |
| The total amount for the works should be included in the Tender amount.   |    |     |  |
| CONCRETE STORMWATER DISH DRAIN  |    |     |  |
| EXCAVATIONS   |    |     |  |
| Excavation in compacted earth not exceeding 2m deep   |    |     |  |
| Excavation in earth not exceeding 2m deep for trenches  | m3 | 54  |  |
| Extra over all excavations for carting away   |    |     |  |
| Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor   | m3 | 16  |  |
| Risk of collapse of excavations   |    |     |  |
| Risk of collapse of sides of excavations not exceeding 1,5m deep  | m2 | 45  |  |
| Compaction of ground surfaces   |    |     |  |
| Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density   | m2 | 108 |  |
| FILLING   |    |     |  |
| Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:   |    |     |  |
| Backfilling to trenches   | m3 | 16  |  |
| Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  |    |     |  |
| Backfilling to Trenches   | m3 | 16  |  |
| Filling of 150mm Gravel Wearing Course Compacted To 95% Mod   |    |     |  |
| Carried Forward Section No. 5   |    |     |  |

| Brought Forward   |    |     |  |
|---|----|-----|--|
| Over site to make up levels   | m3 | 7   |  |
| Prescribed density tests on filling   |    |     |  |
| Modified AASHTO Density test  | No | 7   |  |
| REINFORCED CONCRETE   |    |     |  |
| 25MPa/19mm concrete   |    |     |  |
| 25MPa/19mm reinforced concrete in bottoms and sides   | m3 | 16  |  |
| CONCRETE SUNDRIES   |    |     |  |
| Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines  |    |     |  |
| Finishing concrete bottoms smooth with a steel trowel to falls  | m2 | 108 |  |
| ROUGH FORMWORK (DEGREE OF ACCURACY II)  |    |     |  |
| Rough formwork to sides   |    |     |  |
| Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high  | m2 | 45  |  |
| Smooth formwork to sides above sloping bottoms  | m2 | 45  |  |
| MOVEMENT JOINTS   |    |     |  |
| Isolation joints formed of 10 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former  |    |     |  |
| Expansion joints with soft board through concrete bottoms not exceeding 300mm high  | m  | 45  |  |
| Expansion joints with soft board through concrete sides of channels not exceeding 300mm wide  | m  | 45  |  |
| REINFORCEMENT   |    |     |  |
| Type 617 fabric reinforcement in concrete placed 40mm from the Top  | m2 | 108 |  |
| Angle section galvanised steel bearers with flat section bent lugs each welded, including embedding in concrete   | kg | 135 |  |
| Extra over for mitred and welded L-intersection   | No | 7   |  |
| CONCRETE STORMWATER V DRAIN   |    |     |  |
| EXCAVATIONS   |    |     |  |
| Excavation in compacted earth not exceeding 2m deep   |    |     |  |
| Excavation in earth not exceeding 2m deep for trenches  | m3 | 6   |  |
| Risk of collapse of excavations   |    |     |  |
| Risk of collapse of sides of excavations not exceeding 1,5m deep  | m2 | 10  |  |
| Compaction of ground surfaces   |    |     |  |
| Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 11  |  |
| Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater  |    |     |  |

|    | Brought Forward  |    |    |  |
|----|--|----|----|--|
| FI | LLING  |    |    |  |
|    | Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:  |    |    |  |
|    | Backfilling under floors   | m3 | 2  |  |
|    | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   |    |    |  |
| :  | under floors   | m3 | 2  |  |
|    | Prescribed density tests on filling  |    |    |  |
| 3  | Modified AASHTO Density test   | No | 1  |  |
|    | REINFORCED CONCRETE  |    |    |  |
|    | Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer |    |    |  |
|    | 700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface   | m  | 13 |  |
| 5  | Extra for 700mm angle  | m  | 3  |  |
|    | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.  | No | 1  |  |
|    | CONCRETE SUNDRIES  |    |    |  |
| ļ  | Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines   |    |    |  |
| 7  | Finishing concrete bottoms smooth with a steel trowel to falls   | m2 | 11 |  |
| ŀ  | TEST CUBES   |    |    |  |
| ш  | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)   | No | 6  |  |
|    |  |    |    |  |
|    | Carried Forward<br>Section No. 5   |    |    |  |
| ;  | SECTION NO. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater   |    |    |  |

| Brought I CULVERTS  | roi ward   |   |  |
|---|------------|---|--|
| Supply and Lay Concrete Pipe Culverts on class B bedding  | <u>1:</u>  |   |  |
| Class 50-D-load pipes with U joints:  |            |   |  |
| 9 450mm Diameter Concrete pipe laid in trenches not exceed deep including excavation, backfill, bedding, cart away and compaction.  |            | 2 |  |
| HEADWALLS<br>EXCAVATIONS  |            |   |  |
| Excavation in compacted earth not exceeding 2m deep   |            |   |  |
| Excavation in earth not exceeding 2m deep for trenches  | m3         | 3 |  |
| Risk of collapse of excavations   |            |   |  |
| Risk of collapse of sides of excavations not exceeding 1,5r   | m deep m2  | 2 |  |
| Extra over all excavations for carting away   |            |   |  |
| Surplus material from excavations and/or stock piles on situmping site to be located by the contractor  | e, to a m3 | 1 |  |
| Keeping excavations free of water   |            |   |  |
| Keeping excavations free of all water other than subterrane water   | ean Item   | 1 |  |
| Compaction of ground surfaces   |            |   |  |
| Compaction of natural or excavated ground surface under including scarifying for a depth of 150mm, breaking down of material, adding suitable material where necessary and compacting to 93% Mod AASHTO density |            | 4 |  |
| 4 <mark>FILLING</mark>  |            |   |  |
| Earth filling (G7 material) supplied by the contractor in laye exceeding 125mm thick and compacted to 98% Mod AASI density:   |            |   |  |
| Backfilling to trenches   | m3         | 1 |  |
| Selected Subgrade G5 material in accordance with SABS DM in layers not exceeding 150mm thick and compacted to Mod AASHTO density.   |            |   |  |
| Under floors  | m3         | 1 |  |
| Prescribed density tests on filling   |            |   |  |
| Modified AASHTO Density test  | No         | 1 |  |
| REINFORCED CONCRETE   |            |   |  |
| 25MPa/19mm concrete   |            |   |  |
| 25Mpa/19mm Reinforced concrete in bottom slabs and foo  | otings m3  | 1 |  |
| CONCRETE SUNDRIES   |            |   |  |
| Finishing top surfaces of concrete smooth with a power floor high quality "ABC Plate" floor hardener applied at a rate of in accordance with the Engineer's guidelines  |            |   |  |
| Finishing concrete bottoms smooth with wood float   | m2         | 2 |  |
| Carried I Section No. 5 SECTION 5 - EXTERNAL WORKS  | Forward    |   |  |

| ROUGH FORMWORK (DEGREE OF ACCURACY II)   |    |    |  |
|--|----|----|--|
| Rough formwork to sides  |    |    |  |
| Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high   | m2 | 5  |  |
| Rough formwork to sides  |    |    |  |
| REINFORCEMENT  |    |    |  |
| Weld Mesh Ref 193 in Concrete bottom slab  | m2 | 5  |  |
| MASONRY  |    |    |  |
| SUPPLEMENTARY PREAMBLES  |    |    |  |
| SUPERSTRUCTURE   |    |    |  |
| Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement).  Open perp. @ 1540 centres parallel with drainage pipe |    |    |  |
| One brick walls  | m2 | 2  |  |
| BRICKWORK SUNDRIES   |    |    |  |
| Brickwork reinforcement  |    |    |  |
| 150mm Wide reinforcement built in horizontally every second course   | m  | 12 |  |
| <u>PLASTERING</u>  |    |    |  |
| EXTERNAL PLASTER   |    |    |  |
| Cement plaster wood floated, on brickwork  |    |    |  |
| On walls   | m2 | 2  |  |
| Gabion Mattress  |    |    |  |
| Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.  | m2 | 2  |  |
| <u>Manholes</u>  |    |    |  |
| Manholes to engineers specification  | No | 5  |  |
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| Carried Forward to Summary of Section No. 5  |    |    |  |
| Section No. 5  |    |    |  |
| SECTION 5 - EXTERNAL WORKS   |    |    |  |

| BILL NO. 2  |    |    |  |
|---|----|----|--|
| <u>APRONS</u>   |    |    |  |
| SUPPLEMENTARY PREAMBLES   |    |    |  |
| General These quantities are measured in accordance with SANS 1200 Specifications.  |    |    |  |
| The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.  |    |    |  |
| The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. |    |    |  |
| The total amount for the works should be included in the Tender amount.   |    |    |  |
| CONCRETE APRONS   |    |    |  |
| EXCAVATIONS   |    |    |  |
| Excavation in compacted earth not exceeding 2m deep   |    |    |  |
| Excavation in earth not exceeding 2m deep for trenches  | m3 | 3  |  |
| Extra over all excavations for carting away   |    |    |  |
| Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor   | m3 | 1  |  |
| Risk of collapse of excavations   |    |    |  |
| Risk of collapse of sides of excavations not exceeding 1,5m deep  | m2 | 6  |  |
| Compaction of ground surfaces   |    |    |  |
| Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density   | m2 | 10 |  |
| FILLING   |    |    |  |
| Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:   |    |    |  |
| Under floors  | m3 | 2  |  |
| Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  |    |    |  |
| Under floors  | m3 | 2  |  |
| Coarse river sand filling supplied by the contractor:   |    |    |  |
| Under floors  | m3 | 1  |  |
| Carried Forward Section No. 5   |    |    |  |

|    | Brought Forward Prescribed density tests on filling  |    |    |  |
|----|--|----|----|--|
|    | Modified AASHTO Density test   | No | 1  |  |
|    | REINFORCED CONCRETE  |    |    |  |
|    | 25MPa/19mm concrete  |    |    |  |
| 9  | Surface beds cast in panels on waterproofing   | m3 | 1  |  |
| 0  | Edge thickening  | m3 | 1  |  |
|    | CONCRETE SUNDRIES  |    |    |  |
|    | Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's quidelines |    |    |  |
| 1  | Finishing concrete bottoms smooth with a steel trowel to falls   | m2 | 10 |  |
|    | TEST CUBES   |    |    |  |
|    | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)   | No | 1  |  |
|    | ROUGH FORMWORK (DEGREE OF ACCURACY II)   |    |    |  |
|    | Rough formwork to sides  |    |    |  |
|    | Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high   | m2 | 2  |  |
|    | Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:   |    |    |  |
| 14 | 12mm Joints not exceeding 300mm high   | m  | 10 |  |
|    | Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc  |    |    |  |
|    | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.  | m  | 7  |  |
|    | REINFORCEMENT  |    |    |  |
| 6  | REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.  | m2 | 10 |  |
|    | WATERPROOFING  |    |    |  |
|    | 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured)   | m2 | 11 |  |
|    | SOAKAWAY   |    |    |  |
|    | <u>EXCAVATIONS</u>   |    |    |  |
|    | Excavation in compacted earth not exceeding 2m deep  |    |    |  |
| 8  | Excavation in earth not exceeding 2m deep for holes  | m3 | 16 |  |
|    | Risk of collapse of excavations  |    |    |  |
| 9  | Risk of collapse of sides of excavations not exceeding 1,5m deep   | m2 | 16 |  |
|    | Compaction of ground surfaces  |    |    |  |
| 20 | Thoroughly compact backfilling materials   | m2 | 16 |  |
|    | Carried Forward  |    |    |  |
|    | Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 2 Aprons   |    |    |  |

|    | Brought Forward   |      |    | ĺ |
|----|---|------|----|---|
|    | Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density |      |    |   |
| 1  | Backfilling to holes  | m3   | 8  |   |
|    | Earth filling with stone material supplied by the contractor:   |      |    |   |
| 2  | Under floors  | m3   | 8  |   |
|    | Coarse river sand filling supplied by the contractor:   |      |    |   |
| :3 | Stone (>63mm)   | m3   | 8  |   |
|    | <u>Membranes</u>  |      |    |   |
| 4  | Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces                             | m2   | 48 |   |
|    | <u>Tests</u>  |      |    |   |
| 25 | Percolation tests   | Item | 1  |   |
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|    | Carried Forward to Summary of Section No. 5   |      |    |   |
|    | Section No. 5   |      |    |   |
|    | SECTION 5 - EXTERNAL WORKS<br>Bill No. 2  |      |    |   |
| ı  | Aprons  |      |    | ١ |

| BILL NO. 3   |    |    |  |
|--|----|----|--|
| WALKWAYS   |    |    |  |
| SUPPLEMENTARY PREAMBLES  |    |    |  |
| <u>General</u>   |    |    |  |
| These quantities are measured in accordance with SANS 1200 Specifications.   |    |    |  |
| The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.   |    |    |  |
| The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.  |    |    |  |
| The total amount for the works should be included in the Tender amount.  |    |    |  |
| CONCRETE WALKWAY   |    |    |  |
| <u>EXCAVATIONS</u>   |    |    |  |
| Excavation in compacted earth not exceeding 2m deep  |    |    |  |
| Excavation in earth not exceeding 2m deep for trenches   | m3 | 10 |  |
| Extra over all excavations for carting away  |    |    |  |
| Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor  | m3 | 6  |  |
| Risk of collapse of excavations  |    |    |  |
| Risk of collapse of sides of excavations not exceeding 1,5m deep   | m2 | 16 |  |
| Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:   |    |    |  |
| Under floors   | m2 | 23 |  |
| FILLING  |    |    |  |
| Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:  |    |    |  |
| Under floors   | m3 | 3  |  |
| Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   |    |    |  |
| Under floors   | m3 | 7  |  |
| Coarse river sand filling supplied by the contractor:  |    |    |  |
| Under floors   | m3 | 1  |  |
| On the state of th |    |    |  |
| Carried Forward Section No. 5  |    |    |  |

| Brought Forward  |    |    |  |
|--|----|----|--|
| Prescribed density tests on filling  |    |    |  |
| Modified AASHTO Density test   | No | 2  |  |
| SOIL POISONING   |    |    |  |
| Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation |    |    |  |
| for ten years:   |    |    |  |
| Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.   | m2 | 39 |  |
| 150-175mm Tanalith Treated Gum Pole. poles not allowed to be cut post treatment  |    |    |  |
| 2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc                       | No | 51 |  |
| CONCRETE TO WALKWAYS   |    |    |  |
| Construction of paving complete  |    |    |  |
| 25MPa/19mm concrete  |    |    |  |
| Walkways   | m3 | 4  |  |
| Reinforcement (Provisional)  |    |    |  |
| REF. 395 fabric reinforcement in concrete infill, strip footings.  | m² | 23 |  |
| Test blocks:   |    |    |  |
| Making and testing of 150x150x150mm concrete strength test cubes (Provisional).  | No | 4  |  |
| Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:                                   |    |    |  |
| 12mm Joints not exceeding 300mm high.  | m  | 20 |  |
| Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc                                      |    |    |  |
| 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.                          | m  | 20 |  |
| Waterproofing under Surface beds   |    |    |  |
| 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).    | m² | 23 |  |
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| Carried Forward  |    |    |  |
| Section No. 5  |    |    |  |
| SECTION 5 - EXTERNAL WORKS   |    |    |  |

| Brought Forward                             |  |  |
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| Section No. 5                               |  |  |
| SECTION 5 - EXTERNAL WORKS                  |  |  |
| Walkways<br>Bill No. 3                      |  |  |

| BILL NO. 4  |    |   |  |
|---|----|---|--|
| RAMPS   |    |   |  |
| Compaction of ground surfaces   |    |   |  |
| Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 5 |  |
| FILLING   |    |   |  |
| Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:   |    |   |  |
| Under floors  | m3 | 1 |  |
| Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  |    |   |  |
| Under floors  | m3 | 1 |  |
| Prescribed density tests on filling   |    |   |  |
| Modified AASHTO Density test  | No | 1 |  |
| REINFORCED CONCRETE   |    |   |  |
| 25MPa/19mm concrete   |    |   |  |
| Ramps, Landings   | m3 | 3 |  |
| CONCRETE SUNDRIES   |    |   |  |
| Finishing top surfaces of concrete smooth with a wood float:  |    |   |  |
| Surface beds, slabs to falls and currents   | m2 | 5 |  |
| TEST CUBES  |    |   |  |
| Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)  | No | 1 |  |
| ROUGH FORMWORK (DEGREE OF ACCURACY II)  |    |   |  |
| Rough formwork to sides   |    |   |  |
| Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high  | m2 | 4 |  |
| MOVEMENT JOINTS   |    |   |  |
| Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:  |    |   |  |
| 12mm Joints not exceeding 300mm high  | m  | 3 |  |
| Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc   |    |   |  |
| 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.   | m  | 3 |  |
| Carried Forward   |    |   |  |
| Section No. 5 SECTION 5 - EXTERNAL WORKS  |    |   |  |

| Brought Forward  |    |   |  |
|--|----|---|--|
| REINFORCEMENT  |    |   |  |
| REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.  | m2 | 5 |  |
| WATERPROOFING  |    |   |  |
| 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured) | m2 | 5 |  |
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| Carried Forward to Summary of Section No. 5  |    |   |  |
| Section No. 5  |    |   |  |
| SECTION 5 - EXTERNAL WORKS Ramps   |    |   |  |

| BILL NO. 5  |    |     |  |
|---|----|-----|--|
| FENCING   |    |     |  |
| SUPPLEMENTARY PREAMBLES   |    |     |  |
| General   |    |     |  |
| These quantities are measured in accordance with SANS 1200 Specifications.  |    |     |  |
| The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.  |    |     |  |
| The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications. |    |     |  |
| The total amount for the works should be included in the Tender amount.   |    |     |  |
| <u>FENCING</u>  |    |     |  |
| Site clearance  |    |     |  |
| Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.   | m2 | 63  |  |
| Straining wires, fencing and razor wire:  |    |     |  |
| Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured)   | m  | 252 |  |
| 3 Strands of galvanised barbed wire tied to standards, posts and eye bolts  | m  | 189 |  |
| Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured)   | m  | 63  |  |
| Posts for 1 800mm high security fence   |    |     |  |
| 60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base   | m  | 25  |  |
| 100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.  | No | 2   |  |
| Carried Forward   |    |     |  |
| Section No. 5   |    |     |  |

|    | Brought Forward  |    |    |
|----|--|----|----|
|    | 75mm Ditto as intermediate post - 1 dropper every 3000mm between standard posts  | No | 46 |
|    | 150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.  | No | 2  |
|    | 12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers  | No | 8  |
| 10 | Form 12mm diameter hole through fence post   | No | 8  |
|    | Gates  |    |    |
| 11 | Two leafed vehicular swing gate. Size 5500mm x 1800mm high.  | No | 2  |
|    | Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate | m  | 1  |
|    | PADLOCKS   |    |    |
| 3  | Supply 50 mm "Viro" Padlocks and Keys (or equal approved   | m  | 1  |
|    | ACCESS DRIVEWAY, ETC.  |    |    |
|    | Excavation not exceeding 2m deep   |    |    |
|    | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m³ | 35 |
|    | Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):   |    |    |
| 15 | Off site to a dumping site to be found by the Contractor.  | m³ | 18 |
|    | Filling supplied by the contractor under driveways   |    |    |
| 6  | G7 Base course material compacted to 98% Mod AASHTO density  | m³ | 6  |
|    | Rip and Re - compact insitu material on site compacted to 93%  Mod. AASHTO density:  |    |    |
| 17 | Under floors,etc.  | m² | 40 |
|    | Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:  |    |    |
|    | Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.   | m² | 40 |
|    | Supply and installation of gates to match fencing specifications (measured elsewhere) to be fixed flush by specialist according to manufacturer's instruction; including all necessary ironmongery and locking mechanisms  |    |    |
| 19 | Vehicular entrance gate 6000mm wide complete with motor.   | No | 1  |
| ĺ  | Carried Forward to Summary of Section No. 5  |    |    |

# THE MVULA TRUST SAFE PROGRAMME -OMITTED VULINKUNDLA PRIMARY SCHOOL

| Section No. 5              |  |  |
|----------------------------|--|--|
| SECTION 5 - EXTERNAL WORKS |  |  |
| Bill No.5                  |  |  |
| Fencing                    |  |  |

| SECTION SUMMARY - SECTION 5 - EXTERNAL WORKS | Page No |  |
|--|---------|--|
| 1 Stormwater                                 | 39      |  |
| 2 Aprons                                     | 42      |  |
| 3 Walkways                                   | 45      |  |
| 4 Ramps                                      | 47      |  |
| 5 Fencing                                    | 49      |  |
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| BILL NO. 1  |                  |   |            |          |
|---|------------------|---|------------|----------|
| SITE PERSONNEL  |                  |   |            |          |
| COMMUNITY LIAISON OFFICER   |                  |   |            |          |
| Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (months) | Item<br>or<br>(3 | 1 | R22 500,00 | R22 500, |
| Allow for Profit on above two items   | %IT              |   |            |          |
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## **SECTION NO. 7**

#### BILL NO. 1

### PROVISIONAL SUMS

#### SUPPLEMENTARY PREAMBLES

#### General

The following Provisional Amounts are for work to be done by firms of specialists and will, unless expressly stated otherwise, be regarded as Selected Sub-contractors to the Contractor. The Contractor must assist in obtaining tenders and/or quotations from approved firms and submit them to the Agent/Representative for his approval. The tenderer's attention is drawn to Section 1: Preliminaries for further amplification of Provisional- and Prime Cost Amounts.

Note: All provisional sums are "NETT".

The profit and attendance on Nominated/Selected Subcontract allowances will be adjusted to take the of actual Final Account values of the respective Subcontracts into account. The adjustment factor will be the percentages calculated with reference to the BoQ allowances.

# **Profit**

Where listed the contractor may allow for profit if required. The profit will be adjusted in the same ratio as the adjusted value of the subcontract.

#### Attendance

Without in any way limiting the meaning and interpretation, "general attendance" on sub-contractors shall include free of charge to the sub-contractor the following services for the purpose of the relative sub-contract works:

- 1) access to the site and to the places where the work is to be carried out, including the use of any temporary personnel hoists erected by the Contractor for his own use;
- 2) the provision of water and lighting and of single and/or three phase electric power to a position within 50 metres of the place where work is to be carried out, but excluding water, fuel and power for commissioning of the installation for which the Contractor shall be responsible:
- 3) the provision of an area for office accommodation, temporary workshops and for the storage of plant and materials;
- 4) the use of erected scaffolding belonging to the Contractor, in common with others having the like right whilst it so remains erected upon the site:
- 5) the use of messrooms, latrine, health and welfare facilities, and the like, where provided;
- 6) the use of the site telephone (if provided) subject to the payment by the sub-contractor for all his outgoing calls;
- 7) temporary casing and/or other protection of the work;
- 8) site security measures;

**Carried Forward** 

Section No. 7
SECTION 7 - PRIME COST AND PROVISIONAL SUMS
Bill No. 1
Provisional Sums

| Brought Forward   |      |   |             |          |
|---|------|---|-------------|----------|
| <ol> <li>hoisting of the sub-contractor's material in loads not exceeding<br/>the available hoisting loads of cranes of the contractor;</li> </ol>  |      |   |             |          |
| 10) repairs and making good in all trades and final cleaning down on completion.  |      |   |             |          |
| Fuel, power and water for commissioning plant   |      |   |             |          |
| The cost of fuel, power and water for the commissioning of plant shall be borne by the sub-contractor appointed for the relevant sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved. The contractor shall allow opposite this item or under the relevant attendance items for the recovery of such costs via the installation of the necessary meters  |      |   |             |          |
| Work executed by direct contractors   |      |   |             |          |
| Work listed under the heading "Work executed by direct contractors" shall be executed before and during this contract and the tenderer must allow free access to the site for such other contractors. These contractors shall be directly paid by the client and the tenderer must allow for programming in conjunction with them to complete the project successfully within the contract period. The estimated values of these contracts are listed to enable the tenderer to determine the extent of the attendance if required. Profit on these contracts shall not be allowed. |      |   |             |          |
| Budgetary allowances  |      |   |             |          |
| Budgetary allowances shall be re-measured and valued on the same pricing structure as the rest of the contract or shall be omitted in full if so required.  |      |   |             |          |
| Landscaping and Irrigation  |      |   |             |          |
| Provide the sum of R50 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.  | Item | 1 | R50 000,00  | R50 000, |
| Allow for Profit if required  | %IT  |   |             |          |
| Desludging of Pit Toilets   |      |   |             |          |
| Provide the sum of R120 000. 00 for Desludging of Pit Toilets to be used as directed by the Principal Agent and deducted in whole or in part if not required.   | Item | 1 | R120 000,00 | 120000   |
| Allow for Profit if required  | %IT  |   |             |          |
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| Section No. 7 SECTION 7 - PRIME COST AND PROVISIONAL SUMS   |      |   |             |          |
| Bill No. 1<br>Provisional Sums  |      |   |             |          |

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| 5 | SECTION 5 - EXTERNAL WORKS  | 50      |   |      |
| 6 | SECTION 6 - SOCIO ECONOMC DEVELOPMENT   | 51      |   |      |
| 7 | SECTION 7 - PRIME COST AND PROVISIONAL SUMS   | 53      |   |      |
|   | Subtotal  |         |   |      |
|   | CONTINGENCIES   |         |   |      |
|   | Provide 5% for Construction Contingencies to be used at the discretion of the Principal Agent or deducted in whole or in part if not required |         |   |      |
|   | Sub-Total   |         |   |      |
|   | Value Added Tax   |         |   |      |
|   | ADD: Value added Tax at 15%   |         |   |      |
|   | TOTAL   |         |   |      |
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THE MVULA TRUST SAFE PROGRAMME -OMITTED VULINKUNDLA PRIMARY SCHOOL

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