

| Item<br>No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quantity | Rate | Amount |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|            | <b><u>SECTION 1</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |        |
|            | <b><u>BILL No.1</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |        |
|            | <b><u>PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |        |
|            | <b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |
|            | <p>1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.</p> <p>2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.</p> <p>3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</p> <p>4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.</p> <p>5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.</p> |          |      |        |
|            | <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | R    |        |
|            | Section 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |        |
|            | Bill No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |        |
|            | Preliminaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |        |

6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

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

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

9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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## **SECTION A: PRINCIPAL BUILDING AGREEMENT**

### **DEFINITIONS**

Definitions and interpretation (Clause 1).

1 F: ..... V: ..... T: .....

Item

### **OBJECTIVE AND PREPARATION**

Offer, acceptance and performance (Clause 2).

2 F: ..... V: ..... T: .....

Item

Documents (Clause 3).

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

Clause 3.3 is deleted and substituted with:

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

3 F: ..... V: ..... T: .....

Item

Design responsibility (Clause 4).

4 F: ..... V: ..... T: .....

Item

Employer's agents (Clause 5).

5 F: ..... V: ..... T: .....

Item

Site representative (Clause 6).

6 F: ..... V: ..... T: .....

Item

Compliance with regulations (Clause 7).

7 F: ..... V: ..... T: .....

Item

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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |  |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|
| 17                                       | F: ..... V: ..... T: .....<br><br>Setting out of the works (Clause 18.3).<br><br>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out. | Item |   |  |
| 18                                       | F: ..... V: ..... T: .....<br><br>Assignment (Clause 19).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |   |  |
| 19                                       | F: ..... V: ..... T: .....<br><br>Nominated subcontractors (Clause 20).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Item |   |  |
| 20                                       | F: ..... V: ..... T: .....<br><br>Selected subcontractors (Clause 21).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Item |   |  |
| 21                                       | F: ..... V: ..... T: .....<br><br>Employer's Direct contractors (Clause 22).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Item |   |  |
| 22                                       | F: ..... V: ..... T: .....<br><br>Contractor's Domestic subcontractors (Clause 23).                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |   |  |
| 23                                       | F: ..... V: ..... T: .....<br><br><b><u>COMPLETION</u></b><br><br>Practical completion (Clause 24).                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |   |  |
| 24                                       | F: ..... V: ..... T: .....<br><br>Works completion (Clause 25).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Item |   |  |
| 25                                       | F: ..... V: ..... T: .....<br><br>Final completion (Clause 26).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Item |   |  |
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Latent defects liability period (Clause 27).

Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

26 F: ..... V: ..... T: .....

Item

Sectional completion (Clause 28).

27 F: ..... V: ..... T: .....

Item

Revision of date for practical completion (Clause 29).

28 F: ..... V: ..... T: .....

Item

Penalty for non-completion (Clause 30).

29 F: ..... V: ..... T: .....

Item

### **PAYMENT**

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: ..... V: ..... T: .....

Item

Recovery of expense and loss (Clause 33).

31 F: ..... V: ..... T: .....

Item

Final account and final payment (Clause 34).

32 F: ..... V: ..... T: .....

Item

Payment to other parties (Clause 35).

33 F: ..... V: ..... T: .....

Item

### **CANCELLATION**

Cancellation by Employer - Contractor's default (Clause 36).

34 F: ..... V: ..... T: .....

Item

Cancellation by Employer - Loss and damage (Clause 37).

35 F: ..... V: ..... T: .....

Item

Cancellation by Contractor - Employer's default (Clause 38).

36 F: ..... V: ..... T: .....

Item

Cancellation - Cessation of the works (Clause 39).

37 F: ..... V: ..... T: .....

Item

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**DISPUTE**

Dispute Settlement (Clause 40)

38 F: ..... V: ..... T: .....

Item

**SUBSTITUTE PROVISIONS**

State Clauses (Clause 41)

39 F: ..... V: ..... T: .....

Item

**CONTRACT VARIABLES**

The Schedule: Pre-Tender information (Clause 42).

40 F: ..... V: ..... T: .....

Item

**CONTRACTING AND OTHER PARTIES (Clause 42.1)**

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East  
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East  
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East  
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East  
London

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**CONTRACT DETAILS (Clause 42.2)**

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

Date on which possession of the site is intended to be given on :-

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

Intended date of practical completion and the penalty per calendar day for the works as a whole :-

To be advised.

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Penalty amount will be R 2000.00 per Calendar day to a maximum of 10% of Contract Value.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

### **INSURANCES (Clause 42.3)**

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%

With a deductible of : 5% of insured amount

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: 5% of insured amount

### **DOCUMENTS (Clause 42.4)**

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

Clause 42.4.2

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Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

## **SECTION B: PRELIMINARIES**

### **DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

41 F: ..... V: ..... T: .....

Item

### **DOCUMENTS (B2)**

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

42 F: ..... V: ..... T: .....

Item

Provisional Bills of Quantities (B2.2) YES

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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |  |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|
|                                          | Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.                                                                                                                                                                                                              |      |   |  |
| 43                                       | F: ..... V: ..... T: .....<br><br>Availability of construction documentation (B2.3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Item |   |  |
| 44                                       | F: ..... V: ..... T: .....<br><br>Interests of Agents (B2.4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Item |   |  |
| 45                                       | F: ..... V: ..... T: .....<br><br>Priced documents (B2.5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Item |   |  |
| 46                                       | F: ..... V: ..... T: .....<br><br>Tender submission (B2.6)<br><br>Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Item |   |  |
| 47                                       | F: ..... V: ..... T: .....<br><br><b><u>THE SITE (B3)</u></b><br><br>Defined works area (B3.1)<br><br>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.<br><br>Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.<br><br>The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted. | Item |   |  |
| 48                                       | F: ..... V: ..... T: .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Item |   |  |
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|    |                                                          |      |   |
|----|----------------------------------------------------------|------|---|
|    | Geotechnical investigation (B3.2)                        |      |   |
|    | A desktop geotechnical report is available upon request. |      |   |
| 49 | F: ..... V: ..... T: .....                               | Item |   |
|    | Inspection of the Site (B3.3)                            |      |   |
| 50 | F: ..... V: ..... T: .....                               | Item |   |
|    | Existing premises occupied (B3.4)                        |      |   |
| 51 | F: ..... V: ..... T: .....                               | Item |   |
|    | Previous work - dimensional accuracy (B3.5)              |      |   |
| 52 | F: ..... V: ..... T: .....                               | Item |   |
|    | Previous work - defects (B3.6)                           |      |   |
| 53 | F: ..... V: ..... T: .....                               | Item |   |
|    | Services - known (B3.7)                                  |      |   |
| 54 | F: ..... V: ..... T: .....                               | Item |   |
|    | Services - unknown (B3.8)                                |      |   |
| 55 | F: ..... V: ..... T: .....                               | Item |   |
|    | Protection of trees (B3.9)                               |      |   |
| 56 | F: ..... V: ..... T: .....                               | Item |   |
|    | Articles of value (B3.10)                                |      |   |
| 57 | F: ..... V: ..... T: .....                               | Item |   |
|    | Inspection of adjoining properties (B3.11)               |      |   |
| 58 | F: ..... V: ..... T: .....                               | Item |   |
|    | <b><u>MANAGEMENT OF CONTRACT (B4)</u></b>                |      |   |
|    | Management of the Works (B4.1)                           |      |   |
| 59 | F: ..... V: ..... T: .....                               | Item |   |
|    |                                                          |      |   |
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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|--|
|    | Ablution facilities (B7.5)<br><br>The contractor shall provide toilet facilities on site for the works in accordance with:<br><br>Alternative A (i.e. to be provided for by the Contractor). |      |   |  |  |
| 76 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | <b><u>PRIME COST AMOUNTS (B8)</u></b>                                                                                                                                                        |      |   |  |  |
|    | Responsibility for prime cost amounts (B8.1)                                                                                                                                                 |      |   |  |  |
| 77 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | <b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b>                                                                                                                                          |      |   |  |  |
|    | General Attendance (B9.1)                                                                                                                                                                    |      |   |  |  |
| 78 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | Special Attendance (B9.2)                                                                                                                                                                    |      |   |  |  |
| 79 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | Commissioning - fuel, water and power (B9.3)                                                                                                                                                 |      |   |  |  |
| 80 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | <b><u>FINANCIAL ASPECTS (B10)</u></b>                                                                                                                                                        |      |   |  |  |
|    | Statutory taxes, duties and levies (B10.1)                                                                                                                                                   |      |   |  |  |
|    | Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).                                                                              |      |   |  |  |
| 81 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | Payment of Preliminaries (B10.2)                                                                                                                                                             |      |   |  |  |
| 82 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | Adjustment of Preliminaries (B10.3)                                                                                                                                                          |      |   |  |  |
| 83 | F: ..... V: ..... T: .....                                                                                                                                                                   | Item |   |  |  |
|    | Payment certificate cash flow (B10.4)                                                                                                                                                        |      |   |  |  |
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|                                          |                                                                                                   |                       |  |  |
|------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------|--|--|
| 84                                       | F: ..... V: ..... T: .....<br>Contractor information supply (B10.5)                               | Item                  |  |  |
| 85                                       | F: ..... V: ..... T: .....<br><b><u>GENERAL (B11)</u></b><br>Protection of the Works (B11.1)      | Item                  |  |  |
| 86                                       | F: ..... V: ..... T: .....<br>Protection/isolation of existing/sectionally occupied works (B11.2) | Item                  |  |  |
| 87                                       | F: ..... V: ..... T: .....<br>Site security (B11.3)                                               | Item                  |  |  |
| 88                                       | F: ..... V: ..... T: .....<br>Notice before covering work (B11.4)                                 | Item                  |  |  |
| 89                                       | F: ..... V: ..... T: .....<br>Disturbance (B11.5)                                                 | Item                  |  |  |
| 90                                       | F: ..... V: ..... T: .....<br>Works cleaning and clearing (B11.6)                                 | Item                  |  |  |
| 91                                       | F: ..... V: ..... T: .....<br>Vermin (B11.7)                                                      | Item                  |  |  |
| 92                                       | F: ..... V: ..... T: .....<br>Overhand work (B11.8)                                               | Item                  |  |  |
| 93                                       | F: ..... V: ..... T: .....                                                                        | Item                  |  |  |
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|                                          |                                                                                                   |                       |  |  |
|                                          |                                                                                                   |                       |  |  |

## **SECTION C: SPECIFIC PRELIMINARIES**

### **Section C: Specific Preliminaries:**

#### C1. Proprietary branded products

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

94 F: ..... V: ..... T: .....

Item

#### C2. Trade Names, etc.

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

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

95 F: ..... V: ..... T: .....

Item

#### C3. Contractors responsibility

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

96 F: ..... V: ..... T: .....

Item

#### C4. Overtime

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------|
|    | <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p>                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                      |
| 97 | <p>F: ..... V: ..... T: .....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |                                      |
|    | <p>C5. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p>                                                                                                                                                                                                                                                                |      |                                      |
| 98 | <p>F: ..... V: ..... T: .....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |                                      |
|    | <p>C6. Construction Instructions</p> <p>Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p>a) Construction Instruction Book:</p> <p>Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.</p> <p>Only instructions issued in such book shall be recognised.</p> <p>b) Daily Record Book:</p> |      |                                      |
|    | <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | <p style="text-align: center;">R</p> |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|
|                       | <p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p> |      |   |  |
| 99                    | <p>F: ..... V: ..... T: .....</p> <p>C7. Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>                                                                                                                                                                                                                                                                                                                    | Item |   |  |
| 100                   | <p>F: ..... V: ..... T: .....</p> <p>C8. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>                                                                                                                                                                                                                                                                                                                                          | Item |   |  |
| 101                   | <p>F: ..... V: ..... T: .....</p> <p>C9. Encroachment</p> <p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p>                                                                                                                                                                                                                                                                        | Item |   |  |
| 102                   | <p>F: ..... V: ..... T: .....</p> <p>C10. Method Statement</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |   |  |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      | R |  |
| Section 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |  |
| Bill No. 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |  |
| Preliminaries         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |  |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |  |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|
|     | <p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>                                                                                                                                                                                                                                                                                                                                           |      |   |  |
| 103 | <p>F: ..... V: ..... T: .....</p> <p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>                                                                                                                                                                                                                                                                                                  | Item |   |  |
| 104 | <p>F: ..... V: ..... T: .....</p> <p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> | Item |   |  |
| 105 | <p>F: ..... V: ..... T: .....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |   |  |
|     | <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | R |  |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |   |  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|---|--|
|                       | <p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> |      |  |   |  |
| 106                   | <p>F: ..... V: ..... T: .....</p> <p><b><u>C14. Office accommodation</u></b></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           | Item |  |   |  |
| 107                   | <p>F: ..... V: ..... T: .....</p> <p><b><u>C15. Storage Facilities</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Item |  |   |  |
| 108                   | <p>The Contractor shall provide a Container for storage of materials.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Item |  |   |  |
| 109                   | <p>F: ..... V: ..... T: .....</p> <p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>                                                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |  |
| 110                   | <p>F: ..... V: ..... T: .....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Item |  |   |  |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  | R |  |
| Section 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |   |  |
| Bill No. 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |   |  |
| Preliminaries         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |   |  |

**ECDOE DISASTER PROGRAMME**  
**JALI PRIMARY SCHOOL**

[illegible]

**ECDOE DISASTER PROGRAMME  
JALI PRIMARY SCHOOL**

Section 1

Bill No. 1

Preliminaries

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**R**

Section 1

Bill No. 1

Preliminaries

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Section 2  
Bill No. 1  
Demolitions

**Removal of asbestos material**

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

**The following shall apply in respect of asbestos removal**

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

**Carried to Collection**

Section 2  
Bill No. 1  
Demolitions

R

**DEMOLISHING AND REMOVING**

- |   |                                                                                                                                                                                                                                                             |    |      |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| 1 | Demolish existing Single storey buildings comprising of blockwork under corrugated metal roof sheeting, size 308m2 and grub up foundations and remove from site and fill hole with clean earth well watered and compacted in 150mm layers. (4 x Classrooms) | m2 | 308  |
| 2 | Cart away rubble from demolitions and dispose off site.                                                                                                                                                                                                     |    | Item |

**Carried to Collection**

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Section 2  
Bill No. 1  
Demolitions

Section 2

Bill No. 1

Demolitions

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Section 2  
Bill No. 1  
Demolitions

| Item No                                                                                                                                                                                                                         |                                                                                                                                                                                                                                     | Quantity | Rate | Amount |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION 3</u></b>                                                                                                                                                                                                         |                                                                                                                                                                                                                                     |          |      |        |
| <b><u>BILL No. 1</u></b>                                                                                                                                                                                                        |                                                                                                                                                                                                                                     |          |      |        |
| <b><u>TEMPORARY WORKS (PROVISIONAL)</u></b>                                                                                                                                                                                     |                                                                                                                                                                                                                                     |          |      |        |
| <b><u>MODEL PREAMBLES</u></b>                                                                                                                                                                                                   |                                                                                                                                                                                                                                     |          |      |        |
| The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. |                                                                                                                                                                                                                                     |          |      |        |
| <b><u>TEMPORARY ABLUTIONS</u></b>                                                                                                                                                                                               |                                                                                                                                                                                                                                     |          |      |        |
| 1                                                                                                                                                                                                                               | Rental of temporary plastic ablutions approximate size 1,2 x 1,2 x 2,3m high for the sole use by the school, for 3 months inclusive of servicing on weekly basis. Ablutions are to be kept clean and in operation for the duration. | No       | 3    |        |
| 2                                                                                                                                                                                                                               | Transportation and establishment on site and de-establishment on completion temporary ablutions approximate size 1,2 x 1,2 x 2,3m high                                                                                              | No       | 1    |        |
| <b>Carried Forward to Summary of Section No. 3</b>                                                                                                                                                                              |                                                                                                                                                                                                                                     |          |      | R      |
| Section 3                                                                                                                                                                                                                       |                                                                                                                                                                                                                                     |          |      |        |
| Bill No. 1                                                                                                                                                                                                                      |                                                                                                                                                                                                                                     |          |      |        |
| Temporary Works                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |          |      |        |

Section 3  
Bill No. 2  
Alterations

**Removal of asbestos material**

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

**The following shall apply in respect of asbestos removal**

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The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

**Carried to Collection**

Section 3  
Bill No. 2  
Alterations

R

**TEMPORARY BARRIERS, SCREENS, ETC**

**Temporary barriers, screens, etc including removal**

- |   |                                                                                                                                                                                                                                    |    |    |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 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 | m  | 60 |
| 2 | Extra over mesh fence for double leaf gate size 5.5 x 1,8m high.                                                                                                                                                                   | No | 1  |

**REMOVAL OF EXISTING WORK**

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely**

- |   |                                                                                      |    |    |
|---|--------------------------------------------------------------------------------------|----|----|
| 3 | Corrugated metal roof sheeting including timber roof rafters, purlins, underlay etc. | m2 | 36 |
| 4 | Barge boards and fixings                                                             | m  | 8  |
| 5 | Fascia boards and fixings                                                            | m  | 18 |
| 6 | Rainwater gutters and fixings                                                        | m  | 18 |
| 7 | Rainwater downpipes and fixings                                                      | m  | 12 |

**Break down and remove blockwork etc**

- |   |                 |    |   |
|---|-----------------|----|---|
| 8 | M 140 Blockwork | m2 | 9 |
|---|-----------------|----|---|

**Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc**

- |    |                                  |    |     |
|----|----------------------------------|----|-----|
| 9  | Plaster from walls in patches    | m2 | 213 |
| 10 | Average 30mm Screed from floors. | m2 | 27  |

**Timber doors and frames**

- |    |                                                                                                                                                     |    |   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 11 | Take out from one brick wall and cart away steel single size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere). | No | 7 |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|---|

**PREPARATORY WORKS, ETC.**

**Carried to Collection**

R

Section 3  
Bill No. 2  
Alterations

**Prepare existing surfaces for new finish**

|    |                                                                                                                                                                                 |    |     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 12 | Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish | m2 | 213 |
| 13 | Clean down, etc. existing emulsion painted external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish | m2 | 69  |

**Carried to Collection**

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Section 3  
Bill No. 2  
Alterations

**STRUCTURAL REPAIRS**

**Repairs to structural cracks, etc**

- |    |                                                                                                                                                                                                                                                                                |   |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|
| 14 | Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).                                                   | m | 47 |
| 15 | Rake out existing major structural crack in blockwork, remove all debris/loose material including embedding steel rods, cutting or drilling slots (60mm deep) in brickwork at 250mm centres to embed 8mm mild steel bars fixed between mortar joints with injected epoxy resin | m | 24 |

**Carried to Collection**

R

Section 3  
Bill No. 2  
Alterations

Section 3

Bill No. 2

Alterations

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Section 3

Bill No. 2

Alterations

## Carried to Collection

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

**Carried to Collection**

Section 3  
Bill No. 3  
Concrete, Formwork and Reinforcement

R

**UNREINFORCED CONCRETE CAST AGAINST  
EXCAVATED SURFACES**

**15Mpa/19mm Concrete**

|   |                                            |    |    |
|---|--------------------------------------------|----|----|
| 1 | Surface blinding under footings and bases. | m3 | 18 |
|---|--------------------------------------------|----|----|

**REINFORCED CONCRETE CAST AGAINST  
EXCAVATED SURFACES**

**30MPa/20mm concrete:**

|   |                                |    |    |
|---|--------------------------------|----|----|
| 2 | Surface beds on waterproofing. | m3 | 55 |
|---|--------------------------------|----|----|

|   |             |    |    |
|---|-------------|----|----|
| 3 | Thickening. | m3 | 38 |
|---|-------------|----|----|

**TEST BLOCKS**

**Test blocks:**

|   |                                                                                 |    |   |
|---|---------------------------------------------------------------------------------|----|---|
| 4 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional). | No | 6 |
|---|---------------------------------------------------------------------------------|----|---|

**FINISHING TOP SURFACE OF CONCRETE**

**Finishing top surfaces of concrete smooth with a  
wood float:**

|   |                                                 |    |     |
|---|-------------------------------------------------|----|-----|
| 5 | Surface beds, suspended slabs, base slabs, etc. | m2 | 366 |
|---|-------------------------------------------------|----|-----|

**SMOOTH FORMWORK (DEGREE OF  
ACCURACY I)**

**Smooth Formwork to Sides:**

|   |                                                                   |   |     |
|---|-------------------------------------------------------------------|---|-----|
| 6 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 192 |
|---|-------------------------------------------------------------------|---|-----|

**MOVEMENT JOINTS ETC**

**Saw cut joints:**

|   |                                             |   |     |
|---|---------------------------------------------|---|-----|
| 7 | 6 x 40mm Saw cut joints in top of concrete. | m | 126 |
|---|---------------------------------------------|---|-----|

**Carried to Collection**

Section 3  
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Concrete, Formwork and Reinforcement

R

**REINFORCEMENT (PROVISIONAL)**

**Fabric reinforcement:**

|   |                                                                            |    |     |
|---|----------------------------------------------------------------------------|----|-----|
| 8 | REF. 193 fabric reinforcement in concrete footings, walls, base slabs etc. | m2 | 366 |
|---|----------------------------------------------------------------------------|----|-----|

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Concrete, Formwork and Reinforcement

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### **SECTION 3**

## **BILL No. 4**

## WATERPROOFING

## MODEL PREAMBLES

The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.

## SUPPLEMENTARY PREAMBLES

**Proprietary products in descriptions:**

Proprietary products shall be used as specified.  
Substitute products of similar quality and specification  
may only be used with prior approval by the Principal  
Agent.

## Waterproofing

Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc

Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).

The product and its methodology for application must be approved by Principal Agent before it is used.

**Carried to Collection**

Section 3  
Bill No. 4  
Waterproofing

R

It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.

Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.

Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.

**Carried to Collection**

Section 3  
Bill No. 4  
Waterproofing

R

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':**

|   |                                 |    |     |
|---|---------------------------------|----|-----|
| 1 | Under surface beds, bases, etc. | m2 | 366 |
|---|---------------------------------|----|-----|

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Section 3  
Bill No. 4  
Waterproofing

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Section 3

Bill No. 4

Waterproofing

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Section 3

Bill No. 4

Waterproofing



**Guarantee**

Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.

**Safety**

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

**Handling and Storage**

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

**Carried to Collection**

Section 3  
Bill No. 5  
Roof Coverings Etc.

R

### **Inspection Prior to Installation or Erection**

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

### **Protrusion through Sheeted Surfaces**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

### **Cleaning of Roofs, etc**

All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

**Carried to Collection**

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Bill No. 5  
Roof Coverings Etc.

R

**ROOF COVERINGS**

**PROFILED METAL SHEETING AND ACCESSORIES**

**0.58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :**

|   |                                                      |    |    |
|---|------------------------------------------------------|----|----|
| 1 | Roof sheeting laid to pitch not exceeding 25 degrees | m2 | 36 |
|---|------------------------------------------------------|----|----|

**0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:**

|   |                                          |   |    |
|---|------------------------------------------|---|----|
| 2 | Standard narrow and broad flute closers. | m | 18 |
|---|------------------------------------------|---|----|

**ROOF AND WALL INSULATION**

**"Sisalation Grade FR430" or equal approved heavy industrial insulation**

|   |                                                                                                                                                                                      |    |    |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 3 | Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires | m2 | 36 |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|

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Roof Coverings Etc.

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| <b><u>SECTION 3</u></b>                                                                                                                                                        |          |      |        |
| <b><u>BILL No. 6</u></b>                                                                                                                                                       |          |      |        |
| <b><u>CARPENTRY &amp; JOINERY</u></b>                                                                                                                                          |          |      |        |
| <u>Note:</u>                                                                                                                                                                   |          |      |        |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). |          |      |        |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                          |          |      |        |
| <u>FIXING</u>                                                                                                                                                                  |          |      |        |
| All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.              |          |      |        |
| <b>Carried to Collection</b>                                                                                                                                                   |          |      | R      |
| Section 3<br>Bill No. 6<br>Carpentry and Joinery                                                                                                                               |          |      |        |

**CARPENTRY**

**Sawn softwood:**

|   |                        |   |    |
|---|------------------------|---|----|
| 1 | 38 x 114mm Wall plate. | m | 16 |
| 2 | 38 x 114mm Rafter.     | m | 44 |
| 3 | 50 x 76mm Purlins.     | m | 54 |

**Sundries:**

|   |                                                                                                      |    |    |
|---|------------------------------------------------------------------------------------------------------|----|----|
| 4 | TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). | No | 66 |
|---|------------------------------------------------------------------------------------------------------|----|----|

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |      |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| 5 | Prior to the erection of all the roof trusses the consulting engineer shall certify that he has received such working drawings and construction detail designs from the professional engineer employed by the contractor and that he has considered same and given permission to proceed with the fabrication of the trusses (TR1 certificate issued by Contractor's Engineer) and then before the roof covering commences the completed structure shall be inspected and certified as stable by the professional engineer employed by the contractor to ensure that the manufacture of the trusses and erection details have been complied with to his satisfaction (TR2 certificate issued by Contractor's Engineer). |  | Item |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|

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Carpentry and Joinery

**EAVES, VERGES, ETC**

**"Everite Nutec" or equal approved fibre cement**

- |   |                                                                                                                                               |   |    |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------|---|----|
| 6 | 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.                   | m | 18 |
| 7 | 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. | m | 8  |

**DOORS ETC**

**SANS Approved meranti:**

- |   |                                                                                                                                                                                                                                              |    |   |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 8 | 44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1). | No | 7 |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|

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Carpentry and Joinery

| Item No                                                                                                                                                                                  | Quantity                                                                      | Rate      | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------|--------|
| <b><u>SECTION 3</u></b>                                                                                                                                                                  |                                                                               |           |        |
| <b><u>BILL No. 7</u></b>                                                                                                                                                                 |                                                                               |           |        |
| <b><u>IRONMONGERY</u></b>                                                                                                                                                                |                                                                               |           |        |
| <u>Note:</u>                                                                                                                                                                             |                                                                               |           |        |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).           |                                                                               |           |        |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                    |                                                                               |           |        |
| <b><u>Keys/Locks</u></b>                                                                                                                                                                 |                                                                               |           |        |
| Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys |                                                                               |           |        |
| <b><u>Trade Names</u></b>                                                                                                                                                                |                                                                               |           |        |
| Where trade names are specified other ironmongery approved by the Principal Agent may be used                                                                                            |                                                                               |           |        |
| <b><u>Fixing</u></b>                                                                                                                                                                     |                                                                               |           |        |
| Fixing of ironmongery is deemed to be fixed to timber unless otherwise described                                                                                                         |                                                                               |           |        |
| <b><u>HINGES:</u></b>                                                                                                                                                                    |                                                                               |           |        |
| 1                                                                                                                                                                                        | 75 x 100mm Brass Medium duty ball bearing HMP butt hinges.                    | Pairs 7.0 |        |
| <b><u>LOCKS</u></b>                                                                                                                                                                      |                                                                               |           |        |
| 2                                                                                                                                                                                        | "UNION 2277-78SS" or equal approved three lever sash mortice lockset.         | No 7      |        |
| <b><u>Sundries:</u></b>                                                                                                                                                                  |                                                                               |           |        |
| 3                                                                                                                                                                                        | 38mm Diameter black rubber door stop plugged and screwed to walls and floors. | No 7      |        |
| <b>Carried Forward to Summary of Section No. 3</b>                                                                                                                                       |                                                                               |           | R      |
| Section 3<br>Bill No. 7<br>Ironmongery                                                                                                                                                   |                                                                               |           |        |

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| Item No                                                                                                                                                                        |                                                                                                                                                      | Quantity | Rate | Amount |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION 3</u></b>                                                                                                                                                        |                                                                                                                                                      |          |      |        |
| <b><u>BILL No. 9</u></b>                                                                                                                                                       |                                                                                                                                                      |          |      |        |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                                                            |                                                                                                                                                      |          |      |        |
| <b><u>(PROVISIONAL)</u></b>                                                                                                                                                    |                                                                                                                                                      |          |      |        |
| <u>Note:</u>                                                                                                                                                                   |                                                                                                                                                      |          |      |        |
| For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). |                                                                                                                                                      |          |      |        |
| <b><u>RAINWATER DISPOSAL:</u></b>                                                                                                                                              |                                                                                                                                                      |          |      |        |
| <b><u>Watertite or equal approved Aluminium Gutters and Downpipes:</u></b>                                                                                                     |                                                                                                                                                      |          |      |        |
| 1                                                                                                                                                                              | 125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.                                                                   | m        | 18   |        |
| 2                                                                                                                                                                              | Extra over eaves gutter for stopped end.                                                                                                             | No       | 4    |        |
| 3                                                                                                                                                                              | Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.                                                                                | No       | 4    |        |
| 4                                                                                                                                                                              | 100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). | m        | 12   |        |
| 5                                                                                                                                                                              | Extra over rainwater downpipe for bends.                                                                                                             | No       | 4    |        |
| <b>Carried Forward to Summary of Section No. 3</b>                                                                                                                             |                                                                                                                                                      |          |      | R      |
| Section 3                                                                                                                                                                      |                                                                                                                                                      |          |      |        |
| Bill No. 9                                                                                                                                                                     |                                                                                                                                                      |          |      |        |
| Plumbing and Drainage (Provisional)                                                                                                                                            |                                                                                                                                                      |          |      |        |

| Item No                                                                                                                                                                                        | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION 3</u></b>                                                                                                                                                                        |          |      |        |
| <b><u>BILL No. 10</u></b>                                                                                                                                                                      |          |      |        |
| <b><u>PAINTWORK</u></b>                                                                                                                                                                        |          |      |        |
| <u>Note:</u><br>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). |          |      |        |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                          |          |      |        |
| <b><u>Trade Names</u></b>                                                                                                                                                                      |          |      |        |
| Where trade names are specified it will read "or equal approved"                                                                                                                               |          |      |        |
| Carried to Collection                                                                                                                                                                          |          |      | R      |
| Section 3                                                                                                                                                                                      |          |      |        |
| Bill No. 10                                                                                                                                                                                    |          |      |        |
| Paintwork                                                                                                                                                                                      |          |      |        |

**PAINTWORK TO NEW WORK**

**ON WOOD**

**Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:**

|   |                |    |    |
|---|----------------|----|----|
| 1 | On doors       | m2 | 23 |
| 2 | On door frames | m2 | 1  |

**Two coats superior quality clear gloss varnish on smooth sanded down surfaces:**

|   |                |    |    |
|---|----------------|----|----|
| 3 | On doors       | m2 | 23 |
| 4 | On door frames | m2 | 1  |

**Prepare and apply two coats carbolenium on:**

|   |                     |    |   |
|---|---------------------|----|---|
| 5 | On exposed timbers. | m2 | 2 |
|---|---------------------|----|---|

**ON FIBRE-CEMENT BOARD SURFACES**

**Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved coats of finishing paint or equal approved. All joints to be taped, skimmed and rubbed to a smooth finish. Colour to Architects Approval.**

|   |                              |    |    |
|---|------------------------------|----|----|
| 6 | On fascias and barge boards. | m2 | 12 |
|---|------------------------------|----|----|

**Carried to Collection**

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**PAINTWORK TO PREVIOUSLY PAINTED WORK**

**ON FLOATED PLASTER**

**Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved. Colour to Architect's Approval.**

|   |                   |    |     |
|---|-------------------|----|-----|
| 7 | On internal walls | m2 | 213 |
| 8 | On external walls | m2 | 69  |

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Paintwork

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**SECTION SUMMARY - BUILDING WORKS**

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Plumbing and Drainage (Provisional)

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| Item No |                                                                                                                                                                                                                                                     | Quantity | Rate | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 4</u></b>                                                                                                                                                                                                                         |          |      |        |
|         | <b><u>BILL No. 1</u></b>                                                                                                                                                                                                                            |          |      |        |
|         | <b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>                                                                                                                                                                                                          |          |      |        |
|         | <b><u>MODEL PREAMBLES</u></b>                                                                                                                                                                                                                       |          |      |        |
|         | The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.                     |          |      |        |
|         | <b><u>THE FOLLOWING IN PLATFORMS, ETC.</u></b>                                                                                                                                                                                                      |          |      |        |
|         | <u>Site Clearance, ETC</u>                                                                                                                                                                                                                          |          |      |        |
| 1       | Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris. | m2       | 366  |        |
| 2       | Stripping average 200mm thick layer of topsoil and stockpiling on site.                                                                                                                                                                             | m2       | 366  |        |
|         | <u>Open face excavation not exceeding 2m deep:</u>                                                                                                                                                                                                  |          |      |        |
| 3       | Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.                                                                                           | m3       | 183  |        |
|         | <u>Extra over all excavations for carting away:</u>                                                                                                                                                                                                 |          |      |        |
| 4       | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.                                                                                                                                     | m3       | 329  |        |
|         | <u>Filling supplied by the contractor to form platforms</u>                                                                                                                                                                                         |          |      |        |
| 5       | 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.                                                                                            | m3       | 110  |        |
|         | <b>Carried to Collection</b>                                                                                                                                                                                                                        |          |      |        |
|         | Section 4                                                                                                                                                                                                                                           |          |      |        |
|         | Bill No. 1                                                                                                                                                                                                                                          |          |      |        |
|         | External Works                                                                                                                                                                                                                                      |          |      |        |
|         |                                                                                                                                                                                                                                                     |          | R    |        |

|    |                                                                                                                                                                                                                                                                                 |    |     |   |  |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|--|
|    | <u>Coarse river sand filling supplied by the contractor:</u>                                                                                                                                                                                                                    |    |     |   |  |
| 6  | Under floors etc.                                                                                                                                                                                                                                                               | m3 | 18  |   |  |
|    | <u>Compaction of surfaces:</u>                                                                                                                                                                                                                                                  |    |     |   |  |
| 7  | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.                                                                    | m2 | 366 |   |  |
|    | <u>Prescribed density tests on filling:</u>                                                                                                                                                                                                                                     |    |     |   |  |
| 8  | Allow for compaction tests by an approved laboratory to determine density of filling material.                                                                                                                                                                                  | No | 6   |   |  |
|    | <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>                                                                                                                        |    |     |   |  |
| 9  | Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.                                                                                                                                             | m2 | 366 |   |  |
|    | <u>Surface Preparation:</u>                                                                                                                                                                                                                                                     |    |     |   |  |
| 10 | Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls. | m2 | 23  |   |  |
|    | <b><u>THE FOLLOWING IN WALKWAYS</u></b>                                                                                                                                                                                                                                         |    |     |   |  |
|    | <u>Excavation not exceeding 2m deep</u>                                                                                                                                                                                                                                         |    |     |   |  |
| 11 | Reducing levels and depositing excavated material in prescribed stock piles on site.                                                                                                                                                                                            | m3 | 27  |   |  |
|    | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>                                                                                                                                         |    |     |   |  |
| 12 | Off site to a dumping site to be found by the Contractor.                                                                                                                                                                                                                       | m3 | 27  |   |  |
|    | <u>Filling supplied by the contractor under walkways</u>                                                                                                                                                                                                                        |    |     |   |  |
| 13 | G7 Base course material compacted to 98% Mod AASHTO density                                                                                                                                                                                                                     | m3 | 14  |   |  |
|    | <b>Carried to Collection</b>                                                                                                                                                                                                                                                    |    |     | R |  |
|    | Section 4                                                                                                                                                                                                                                                                       |    |     |   |  |
|    | Bill No. 1                                                                                                                                                                                                                                                                      |    |     |   |  |
|    | External Works                                                                                                                                                                                                                                                                  |    |     |   |  |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |     |   |  |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|--|
| 14                                        | 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.<br><br><u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>                                                                                                                                                                       | m3 | 14  |   |  |
| 15                                        | Under floors,etc.<br><br><u>Prescribed density tests on filling:</u>                                                                                                                                                                                                                                                                                                                                                            | m2 | 90  |   |  |
| 16                                        | In-situ dry density test.<br><br><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>                                                                                                                                                                                                                                       | No | 3   |   |  |
| 17                                        | Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.<br><br><b><u>Concrete Paving Blocks</u></b><br><br><u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u> | m2 | 90  |   |  |
| 18                                        | Paving to walkway areas, etc laid to falls.<br><br><b><u>Kerbing</u></b><br><br><u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u>                                                                               | m2 | 90  |   |  |
| 19                                        | Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.                                                                                                                                                                                                                                                                                            | m  | 120 |   |  |
| 20                                        | Ditto but circular on plan.                                                                                                                                                                                                                                                                                                                                                                                                     | m  | 10  |   |  |
| <b>Carried to Collection</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |     | R |  |
| Section 4<br>Bill No. 1<br>External Works |                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |     |   |  |

**THE FOLLOWING IN STORMWATER  
DRAINAGE, APRONS ETC.**

**STORMWATER CHANNELS**

Excavation not exceeding 2m deep

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 21 | Reducing levels and depositing excavated material in prescribed stock piles on site.                                                                                                                                                                                                                                                                                                                                                                                                       | m3 | 20  |
|    | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>                                                                                                                                                                                                                                                                                                                                                    |    |     |
| 22 | Off site to a dumping site to be found by the Contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                  | m3 | 20  |
|    | <u>Filling supplied by the contractor under channels</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |     |
| 23 | G7 Base course material compacted to 98% Mod AASHTO density                                                                                                                                                                                                                                                                                                                                                                                                                                | m3 | 20  |
| 24 | 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.                                                                                                                                                                                                                                                                                                                                   | m3 | 20  |
|    | <u>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.</u> |    |     |
| 25 | 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 etc.                                                                                                                                                                                                                                                                        | m  | 192 |
| 26 | Extra for 700mm angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No | 24  |
| 27 | 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 | 12  |

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External Works

**THE FOLLOWING IN RAINWATER TANKS AND STANDS**

Excavation in earth not exceeding 2m deep:

|    |                                                                                      |    |   |
|----|--------------------------------------------------------------------------------------|----|---|
| 28 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 8 |
|----|--------------------------------------------------------------------------------------|----|---|

Extra over all excavations for carting away:

|    |                                                                                                                 |    |   |
|----|-----------------------------------------------------------------------------------------------------------------|----|---|
| 29 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. | m3 | 8 |
|----|-----------------------------------------------------------------------------------------------------------------|----|---|

Filling supplied by the contractor under strip footing, floors etc.

|    |                                                             |    |   |
|----|-------------------------------------------------------------|----|---|
| 30 | G7 Base course material compacted to 98% Mod AASHTO density | m3 | 4 |
|----|-------------------------------------------------------------|----|---|

|    |                                                                                                                                                          |    |   |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 31 | 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. | m3 | 4 |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|

Compaction of surfaces

|    |                                                                                                                                                                                                               |    |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 32 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 25 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|

25 Mpa/19mm Concrete

|    |         |    |   |
|----|---------|----|---|
| 33 | Plinth. | m3 | 5 |
|----|---------|----|---|

Test blocks:

|    |                                                                                 |    |   |
|----|---------------------------------------------------------------------------------|----|---|
| 34 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional). | No | 4 |
|----|---------------------------------------------------------------------------------|----|---|

Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:

|    |                           |    |    |
|----|---------------------------|----|----|
| 35 | Surface beds, slabs, etc. | m2 | 24 |
|----|---------------------------|----|----|

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**Carried to Final Summary**

R

Section 4

Bill No. 1

External Works

| Item No                                                                                                                                                                                                                                                                                                                                    | Quantity                                                                                                                                                                      | Rate | Amount       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|
| <b><u>SECTION 5</u></b>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |      |              |
| <b><u>BILL No. 1</u></b>                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                               |      |              |
| <b><u>PROVISIONAL SUMS</u></b>                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |      |              |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                               |      |              |
| Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.                                                                              |                                                                                                                                                                               |      |              |
| Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto. |                                                                                                                                                                               |      |              |
| <b><u>PRE-FABRICATED STRUCTURES</u></b>                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |      |              |
| 1                                                                                                                                                                                                                                                                                                                                          | Provide the sum of R1 360 000.00 for the supply and installation of 4 x pre - fabricated classrooms size (60m2) including 1.5m wide veranda, by a nominated sub - contractor. | Item | 1 360 000.00 |
| 2                                                                                                                                                                                                                                                                                                                                          | Add: Profit on above                                                                                                                                                          | %    |              |
| 3                                                                                                                                                                                                                                                                                                                                          | Add: Attendance on above                                                                                                                                                      | %    |              |
| 4                                                                                                                                                                                                                                                                                                                                          | Provide the sum of R380 000.00 for the supply and installation of 1 x pre - fabricated kitchen including 1.5m wide veranda, by a nominated sub- contractor                    | Item | 380 000.00   |
| 5                                                                                                                                                                                                                                                                                                                                          | Add: Profit on above                                                                                                                                                          | %    |              |
| 6                                                                                                                                                                                                                                                                                                                                          | Add: Attendance on above                                                                                                                                                      | %    |              |
| 7                                                                                                                                                                                                                                                                                                                                          | Provide the sum of R360 000.00 for the supply and installation of 1 x pre - fabricated admin size (60m2) including 1.5m wide veranda, by a nominated sub - contractor         | Item | 360 000.00   |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                               |      | R            |
| Section 5<br>Bill No. 1<br>Provisional Sums                                                                                                                                                                                                                                                                                                |                                                                                                                                                                               |      |              |

|                                             |                                                                                                                                                                                                 |      |   |           |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-----------|
| 8                                           | Add: Profit on above                                                                                                                                                                            |      | % |           |
| 9                                           | Add: Attendance on above                                                                                                                                                                        |      | % |           |
| <b><u>ELECTRICAL INSTALLATION</u></b>       |                                                                                                                                                                                                 |      |   |           |
| 10                                          | Provide the sum of R97 500.00 for Electrical supply cables, flexible sleeves, terminations and lightning protection including COCs.                                                             | Item |   | 97 500.00 |
| 11                                          | Add: Profit on above                                                                                                                                                                            |      | % |           |
| 12                                          | Add: Attendance on above                                                                                                                                                                        |      | % |           |
| <b><u>COMMUNITY LIAISON OFFICER</u></b>     |                                                                                                                                                                                                 |      |   |           |
| 13                                          | Provide the sum of R39 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (6 months) | Item |   | 39 000.00 |
| 14                                          | Add: Profit on above                                                                                                                                                                            |      | % |           |
| 15                                          | Add: Attendance on above                                                                                                                                                                        |      | % |           |
| <b>Carried to Collection</b>                |                                                                                                                                                                                                 |      | R |           |
| Section 5<br>Bill No. 1<br>Provisional Sums |                                                                                                                                                                                                 |      |   |           |

Section 5

Bill No. 1

Provisional Sums

**COLLECTION**

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Section 5  
Bill No. 1  
Provisional Sums

| Section<br>No | <u><b>FINAL SUMMARY</b></u>                                                                                                                | Page<br>No | Amount |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|
| 1             | PRELIMINARIES                                                                                                                              | 25         |        |
| 2             | DEMOLITIONS (PROVISIONAL)                                                                                                                  | 29         |        |
| 3             | BUILDING WORKS                                                                                                                             | 62         |        |
| 4             | EXTERNAL WORKS (PROVISIONAL)                                                                                                               | 69         |        |
| 5             | PROVISIONAL SUMS                                                                                                                           | 72         |        |
|               | SUB-TOTAL                                                                                                                                  |            | R      |
|               | <u><b>CONTINGENCIES</b></u>                                                                                                                |            |        |
|               | Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required. |            | R      |
|               | SUB-TOTAL                                                                                                                                  |            | R      |
|               | <b>Add Value Added Tax at the rate of 15%</b>                                                                                              |            | R      |
|               | <b>Carried to Form of Offer and Acceptance</b>                                                                                             |            | R      |